

Figure A shows the element that helps the other element

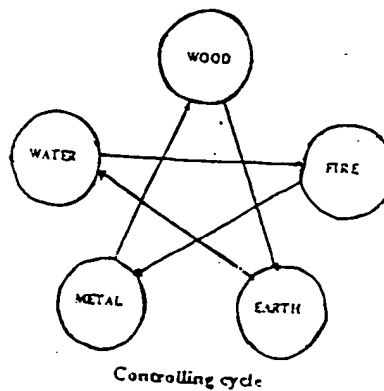


Figure B shows the element that controls the other element

~~Any imbalance (excess or deficiency) of one element leads to disturbance in other elements and becomes the root cause of a disease. The health of human body is achieved by managing and controlling the above elements in Chinese medicine. Most of the world traditional philosophies follow the same concept.~~

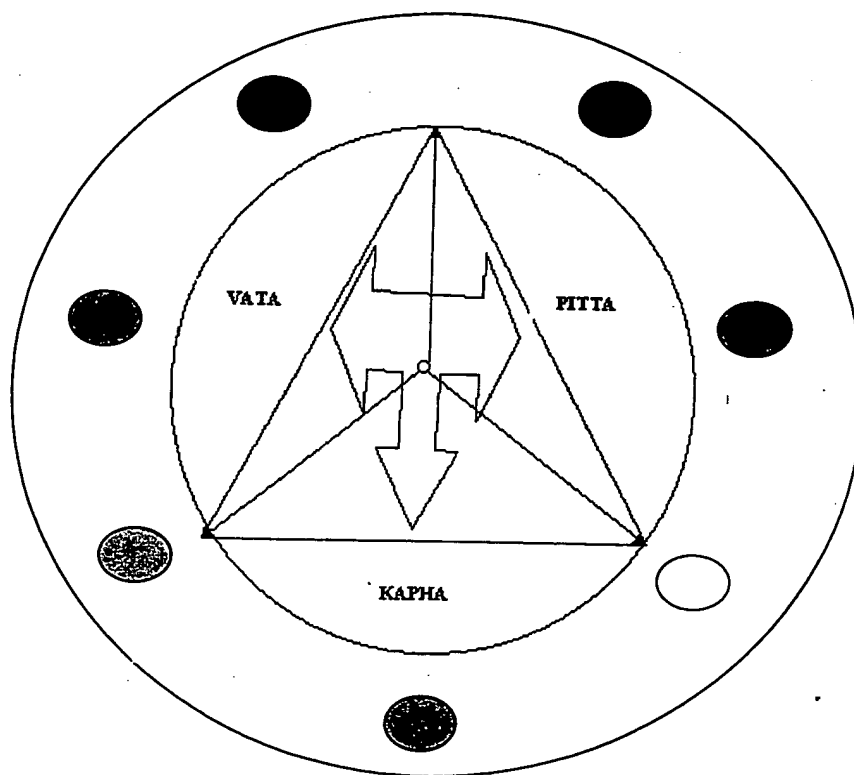
Figure 1

Prior Art

Figure 2  
Prior Art

~~Relation of colors with humors~~

VATA	KAPHA	PITTA

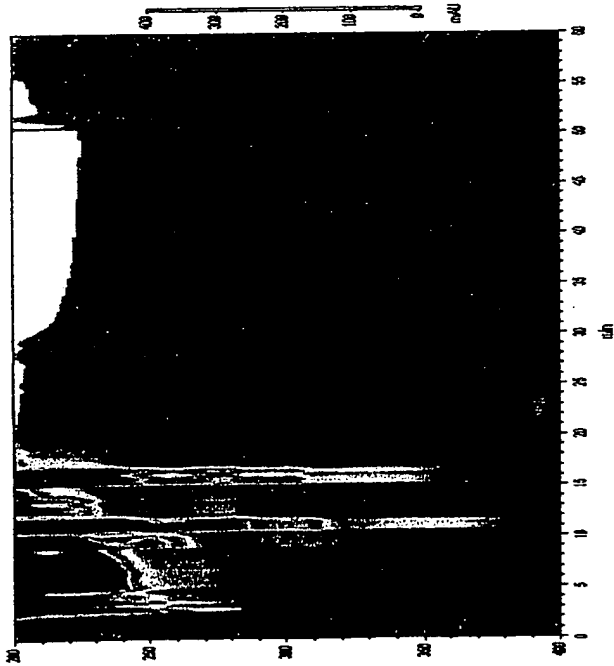


~~Figure 3~~

Figure 3

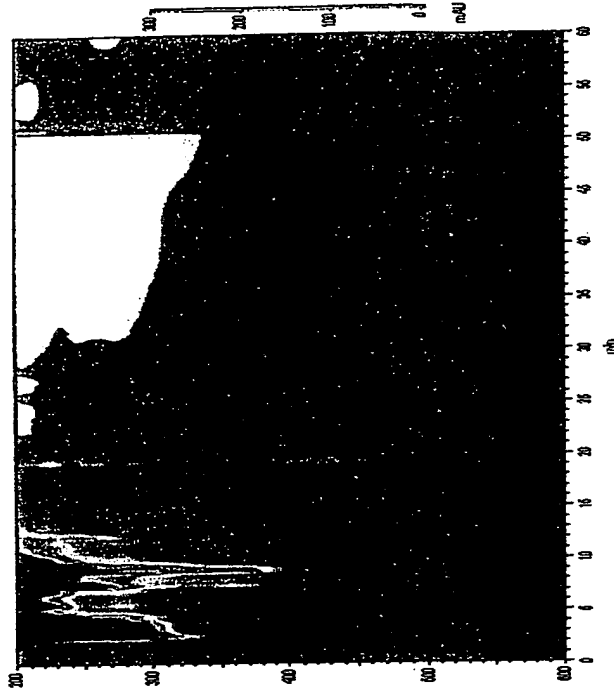
~~THE SHILAJIT EXAMPLE~~

Figure 4



SHILAJIT

GOOD BY EFFICACY





SHILAJIT

POOR BY EFFICACY

**Ayurvedic CONCEPTS**

Herbal formulations with the same ingredients may differ substantially in safety and efficacy depending on the quality and processing of the herbs. Careful selection of herbs, stringent quality control and Chromatographic fingerprinting ensure that the final product delivers the same benefits that have been proven in clinical studies.

Each **Ayurvedic CONCEPTS** formula represents the results of subjecting ancient Ayurvedic knowledge to rigorous modern research and scientific analysis. These products are manufactured according to the rigid standards of modern pharmaceutical technology.

Chromatogram of Daily Health Capsule

Chromatogram of Amla

Store in a cool, dry place.  
Keep out of the reach of children.

Research expertise by:  
**THE HIMALAYA DRUG CO.**  
MUMBAI, BANGALORE - 562 123 (INDIA)  
Enriching Ayurveda Through Research Since 1930

ID-OC-DH-11-X07-01

**Daily Health Capsules**

Antistressor • Rejuvenator  
Amla • Licofrice  
• Natural Zinc

60 CAPSULES

Each capsule contains:  
P.Drs.  
Amlaki  
Garijara  
Yashad bhasma  
Exts.  
Amra  
Yashhi-madhu  
Lavanga  
Draksha  
Oil  
Godhuma

90 mg  
90 mg  
1.94 mg  
120 mg  
25 mg  
25 mg  
10.50 mg  
17.56 mg

Relieves stress, mental fatigue, R.I.s a healthy equilibrium.  
Stress has become part of life today.  
Conduct stress disrupts the immune system leading to chronic fatigue, hypertension, pollution and chemicals cause oxidative damage to the body by the release of free radicals, thereby disturbing normal body functions.

Daily Health capsules are non-sedating rich in anti-oxidant vitamins in the form of Amra and Garijara (vit.A), Amlaki (Amla) (vit.C), and Lavanga (Clove), Draksha (Grapes) and Godhuma (Wheatgerm) oil (vit.E). Yashhi-madhu (Licorice) and Yashad bhasma (Natu Zinc) are excellent immune-stimulants that bolster the body's defence mechanism keeping you fit and healthy.

Clinical trials on the product have proved it to be beneficial in the treatment of stress of various origins.

**Ayurvedic Proprietary Medicine.**  
Completely safe. Non-toxic.  
**NON-SEDATING.**

Natural products provide gradual but long-lasting results. Allow several weeks for full benefits.

Dozage:  
2 capsules twice a day.

Mfg Lic. No.: ATIS-83  
M.R.P.: Rs. 60.00  
(Incl. of all taxes)  
Exp.: 3 yrs. from date of Mfg  
B.No.: 90702  
Mfd.: July 99

Made in India by:  
**THE HIMALAYA DRUG CO.**  
MUMBAI, BANGALORE - 562 123 (INDIA)

The chromatographic fingerprint does not give any clear information about the polarity and conjugative properties of the constituents.

# CHROMATOGRAMS OF A COMMERCIAL TURMERIC POWDER AT

## AT DIFFERENT WAVELENGTHS

(The existing method)

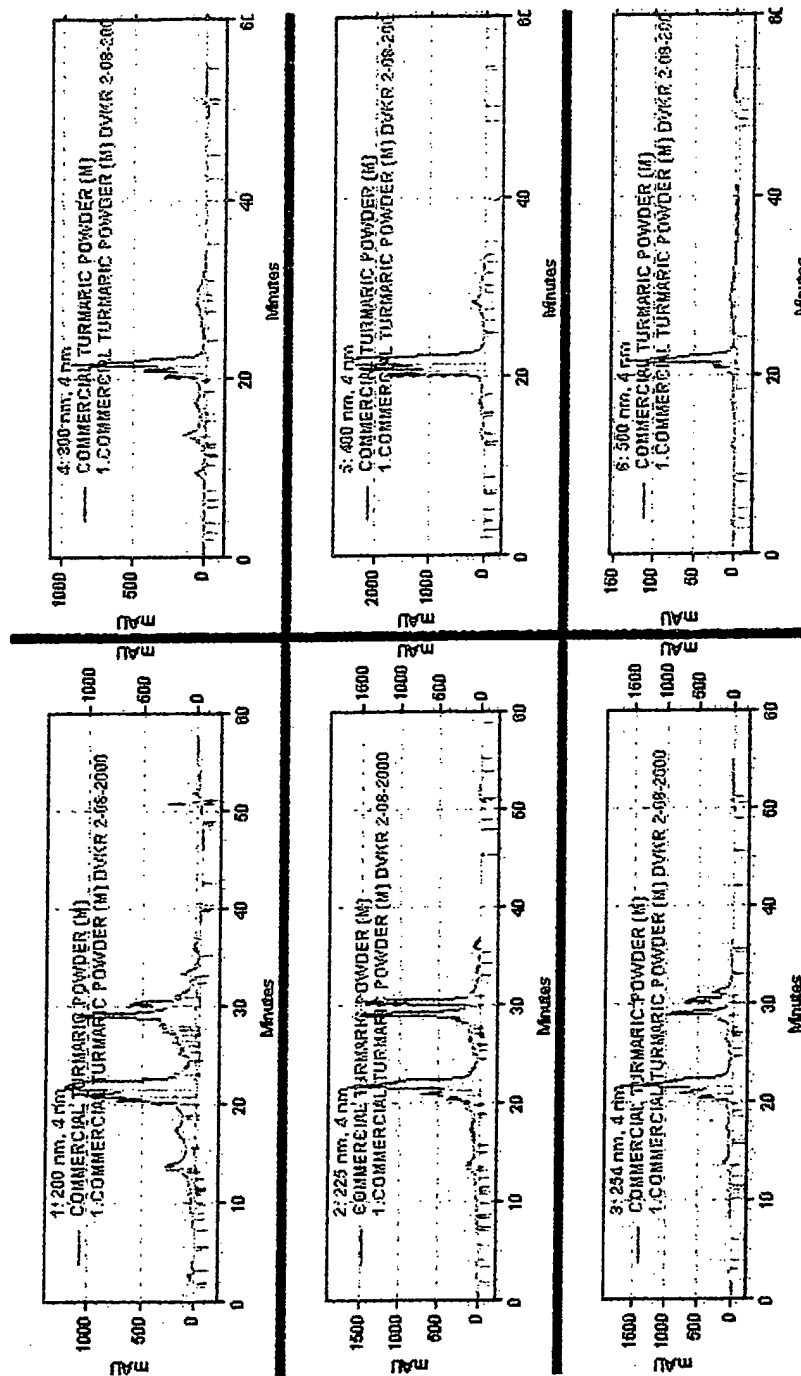


Figure 5

# CHROMATOGRAMS OF A FURAZOLIDINE MEDICINE

## AT DIFFERENT WAVELENGTHS

(The existing method)

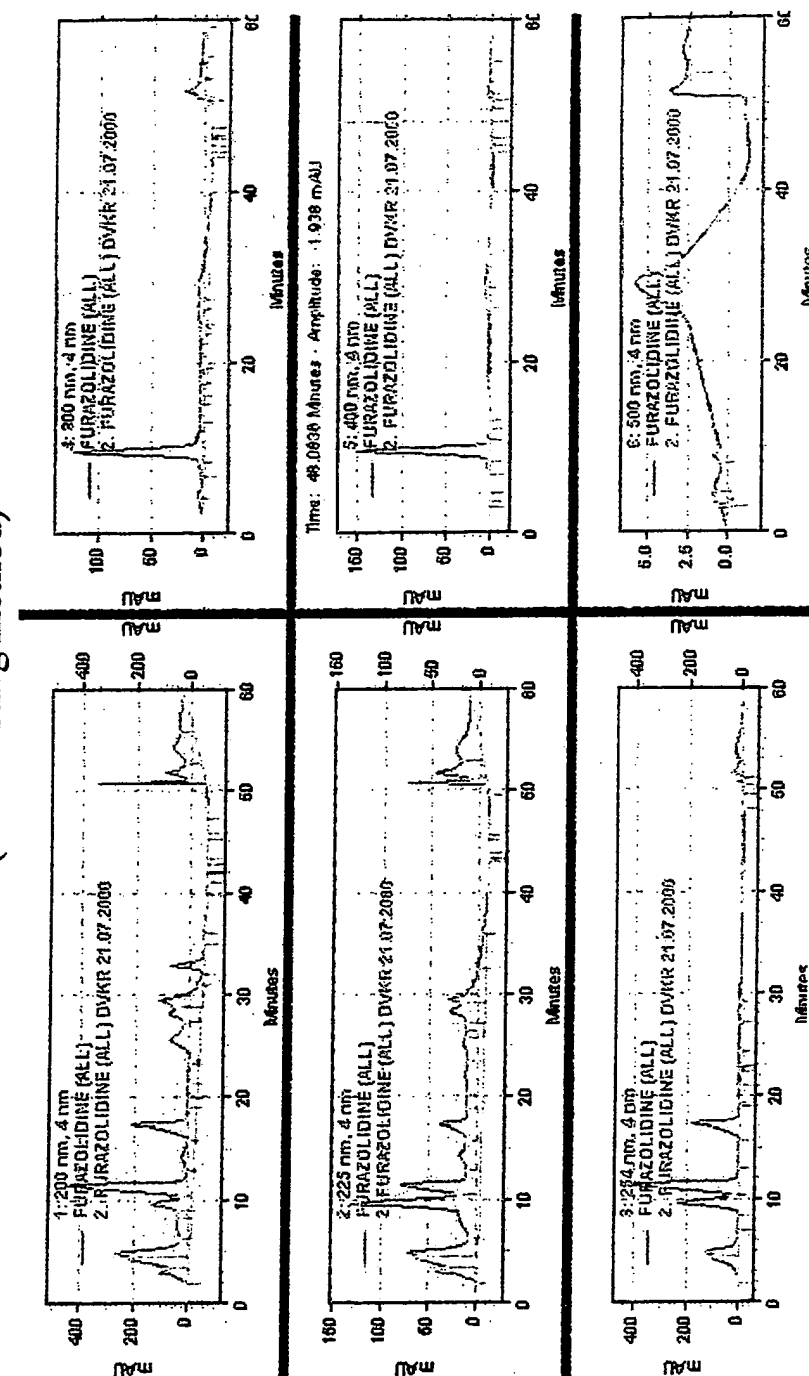


Figure 6

# CHROMATOGRAMS OF A HERBAL FORMULATION

## KRIMI KUTARA RAS

### AT DIFFERENT WAVELENGTHS

(The existing method)

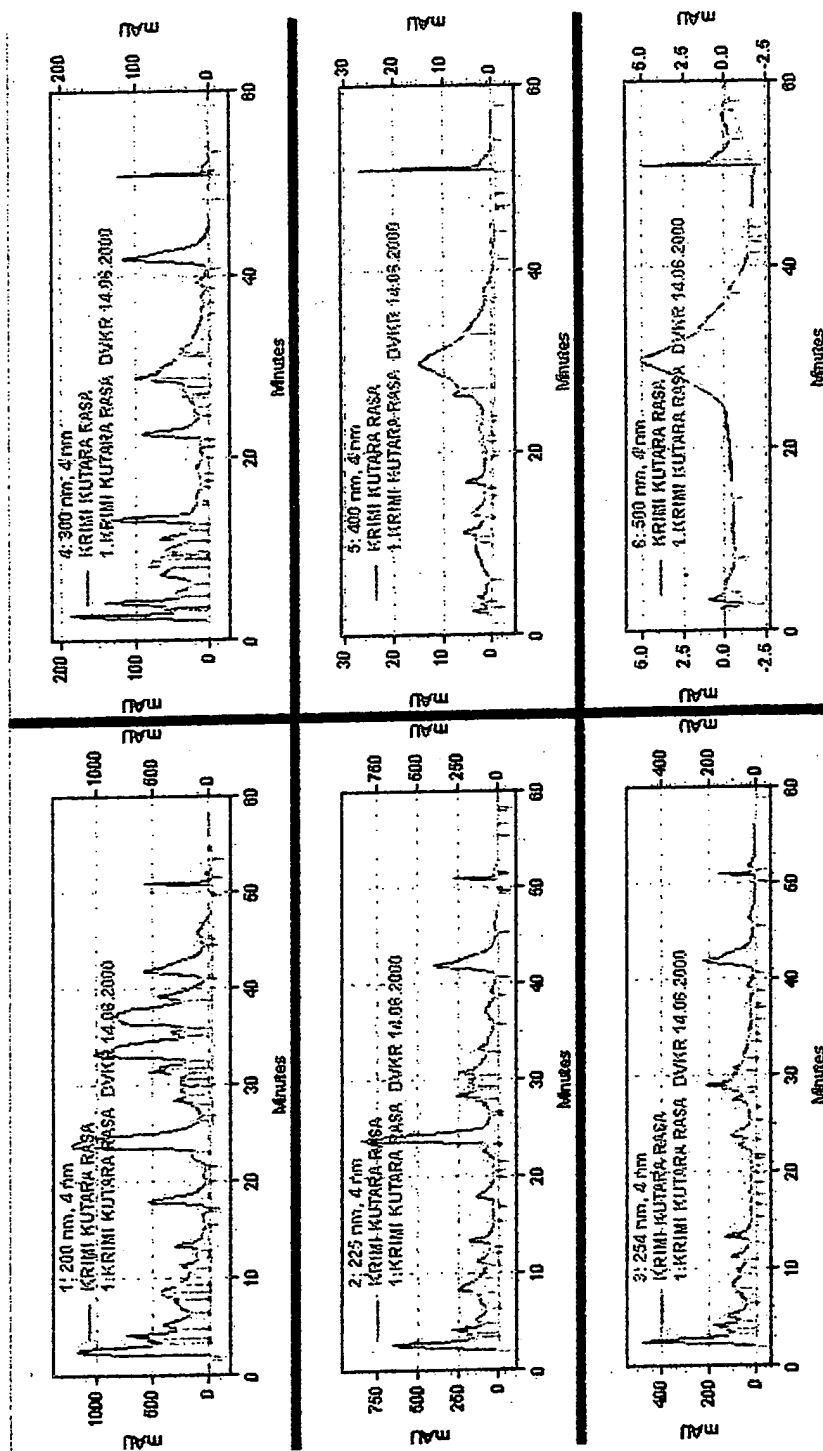


Figure 7

# CHROMATOGRAMS OF A HERBOMINERAL MEDICINE

SHILAJIT (GOOD BY EFFICACY)

AT DIFFERENT WAVELENGTHS

(The existing method)

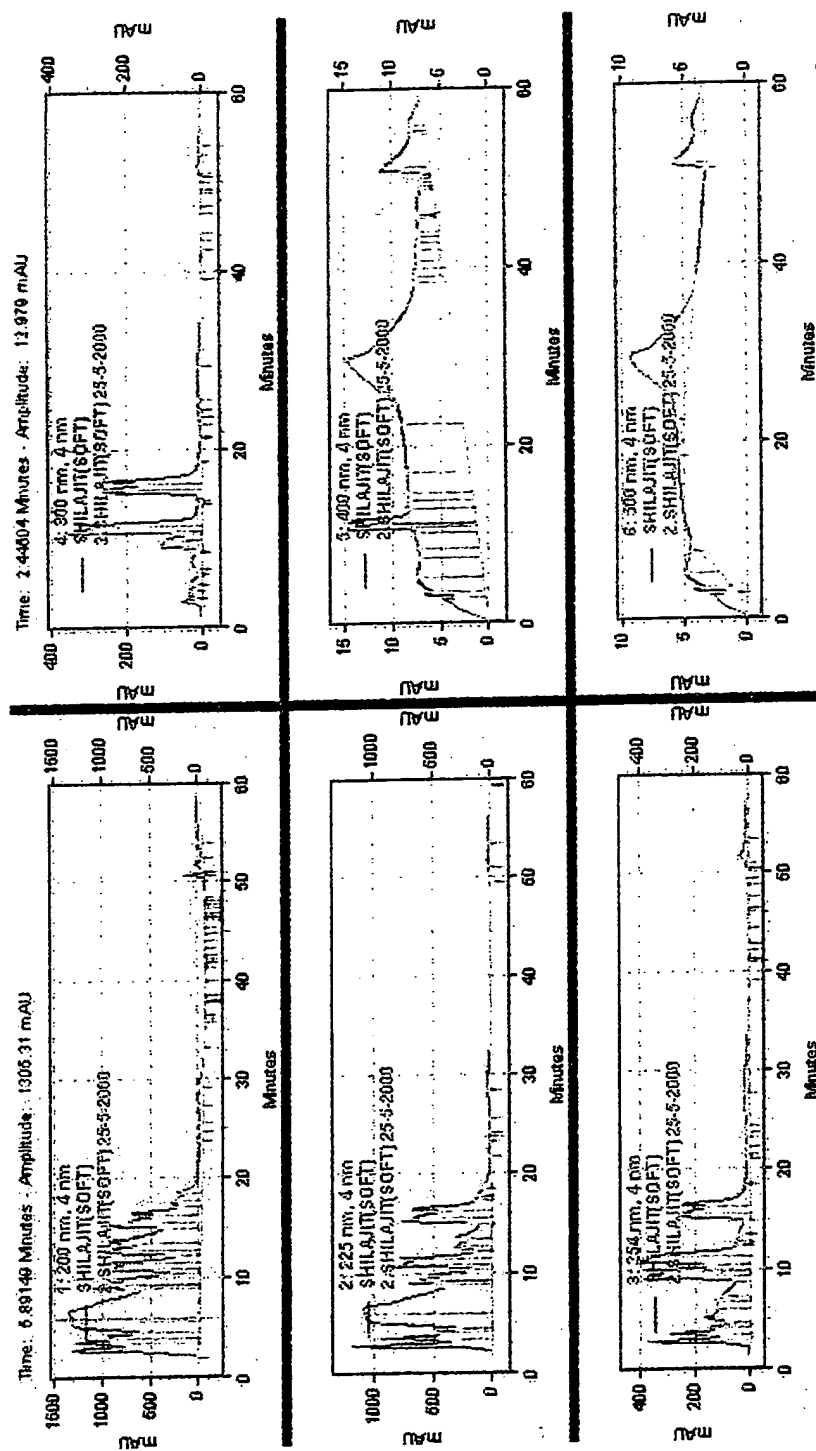


Figure 8



# ~~CHROMATOGRAMS OF A HERBOMINERAL MEDICINE~~

## ~~SHILAJIT (POOR BY EFFICACY)~~

### ~~AT DIFFERENT WAVELENGTHS~~

~~(The existing method)~~

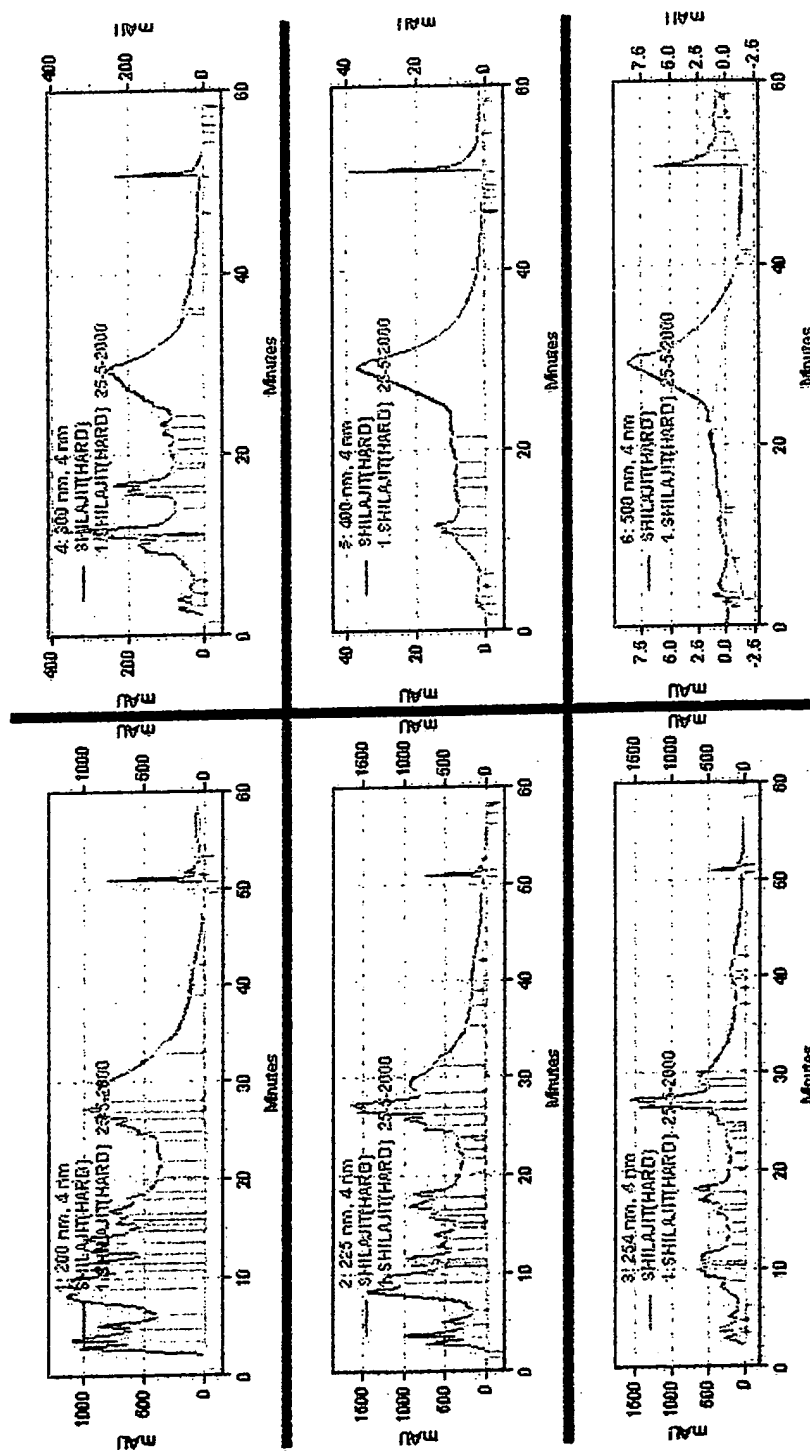


Figure 9

# CHROMATOGRAMS OF A HERBAL FORMULATION

SURYAVARTI

AT DIFFERENT WAVELENGTHS

(The existing method)

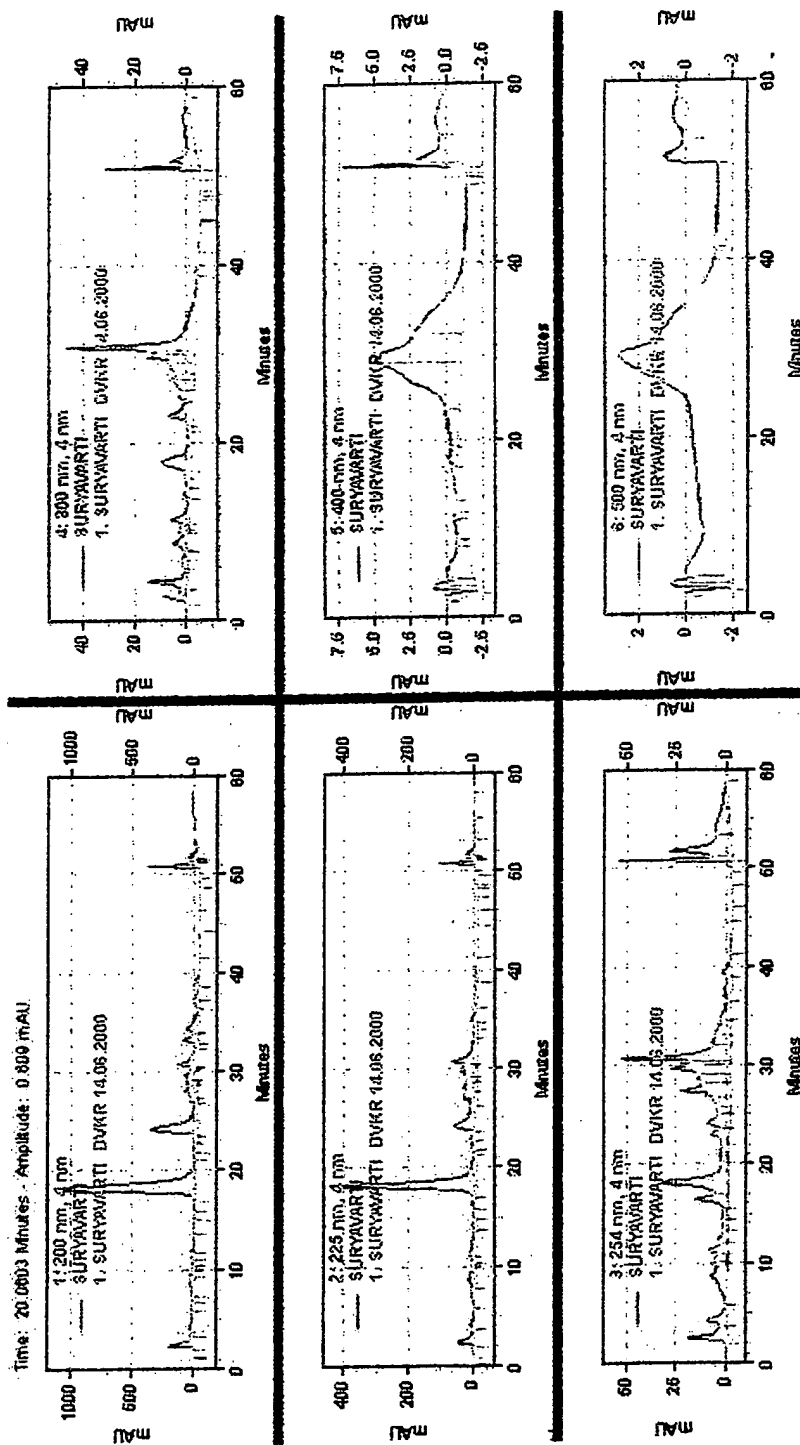


Figure 10

# CHROMATOGRAMS OF A HERBAL FOOD PRODUCT

TEA

## AT DIFFERENT WAVELENGTHS

(The existing method)

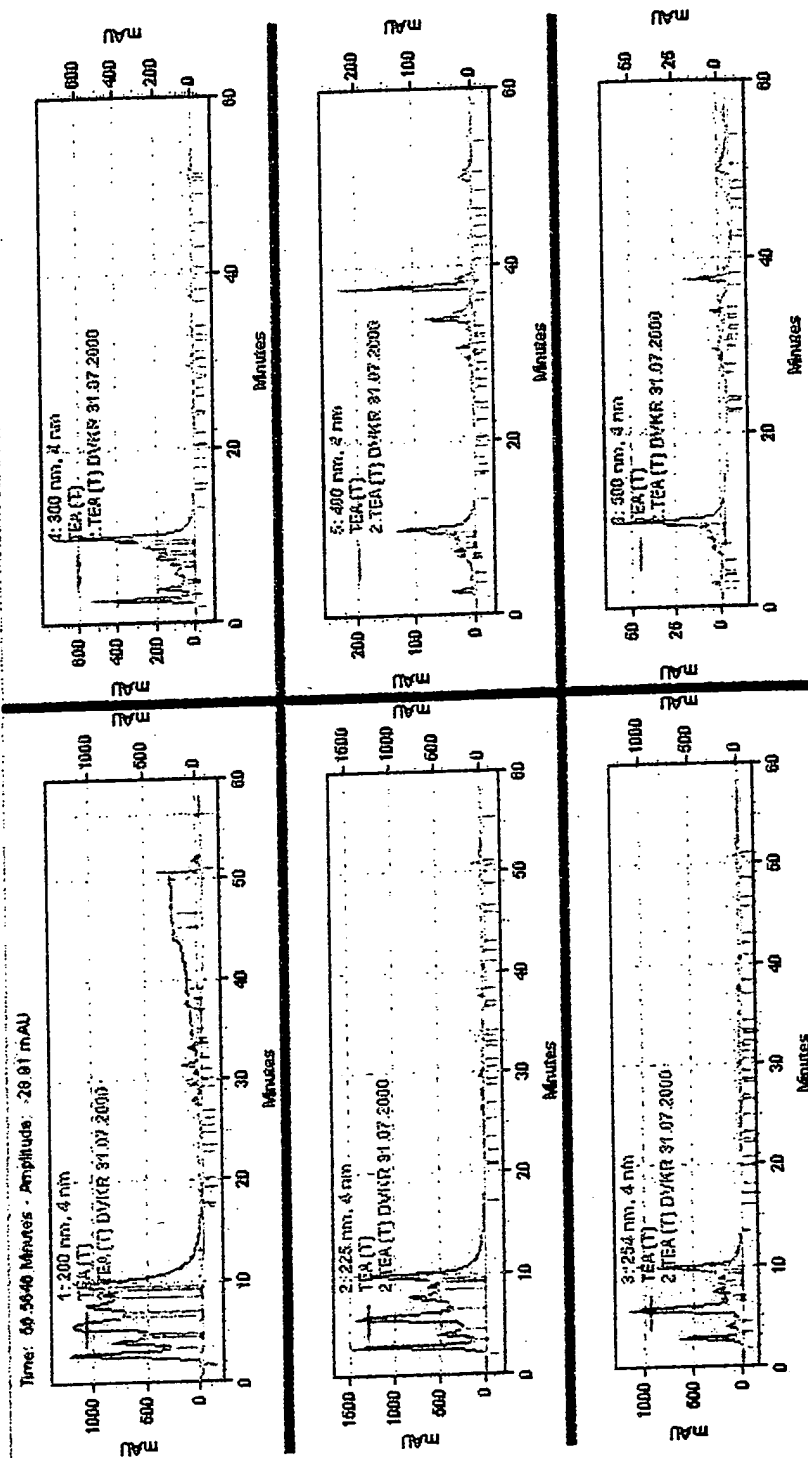


Figure 11

# CHROMATOGRAMS OF A HERBAL FORMULATION

## TRIKATU (A FORMULATION OF PIPPALI, MARICHA AND SHUNTHI)

### AT DIFFERENT WAVELENGTHS

(The existing method)

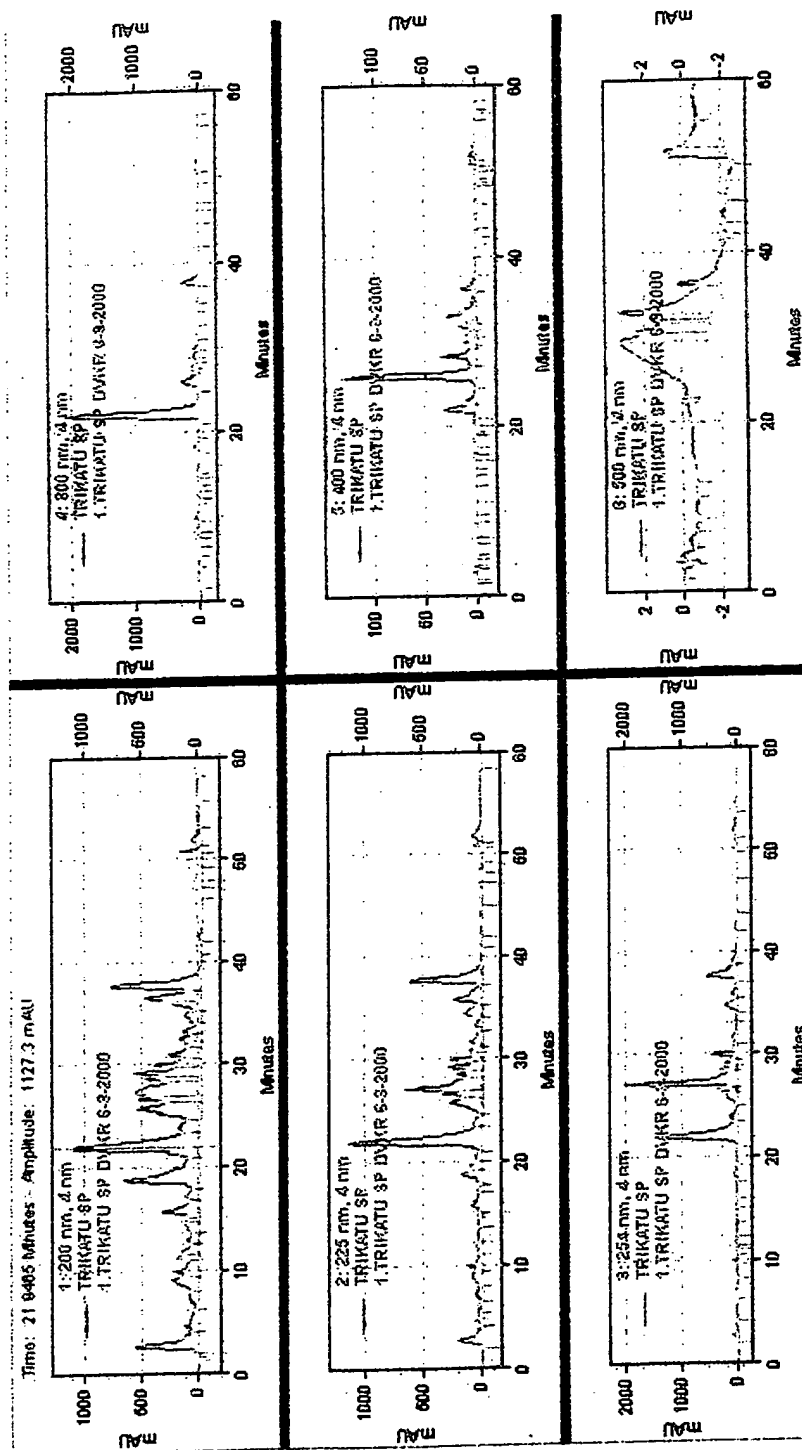
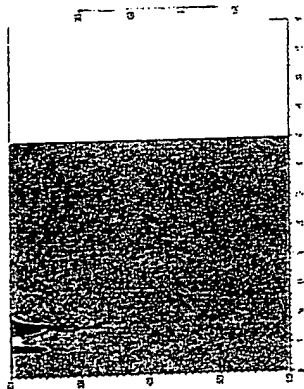
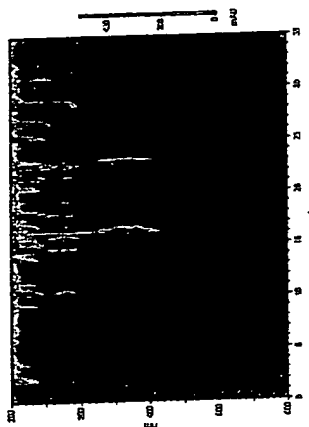


Figure 12

~~THE YELLOW MEDICINES~~



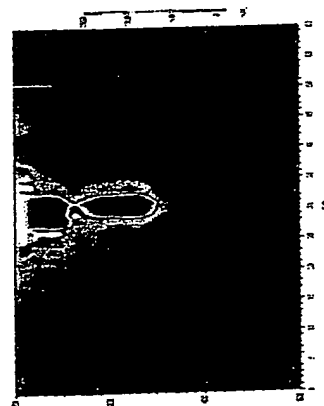
COSCINIUM  
FENESTRATUM



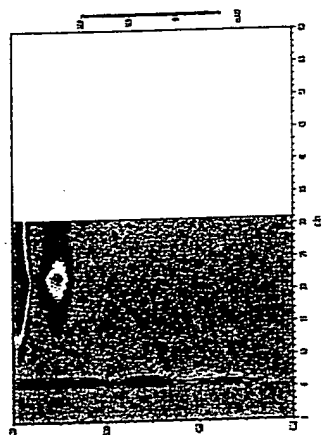
ZINZIBER OFFICINALE  
(PROCESSED)



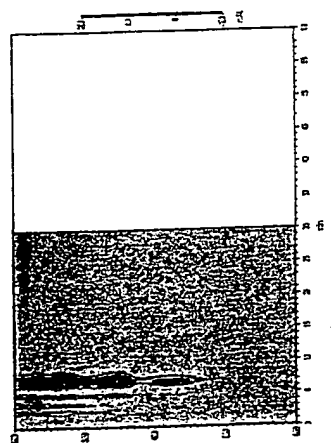
CURCUMA LONGA



CUMMIPHORA MUKUL



BERBERIN  
(FLUKA STANDARD)



BERBERIS ARISTATA

~~THE FINGERPRINTS OF CONTRAVERSIAL DRUGS (SANDIGHA DRAVYAS) SHOWS  
A CLEAR DIFFERENCE IN APPEARANCE MAKING THE IDENTIFICATION MORE EASY.~~

Figure 13

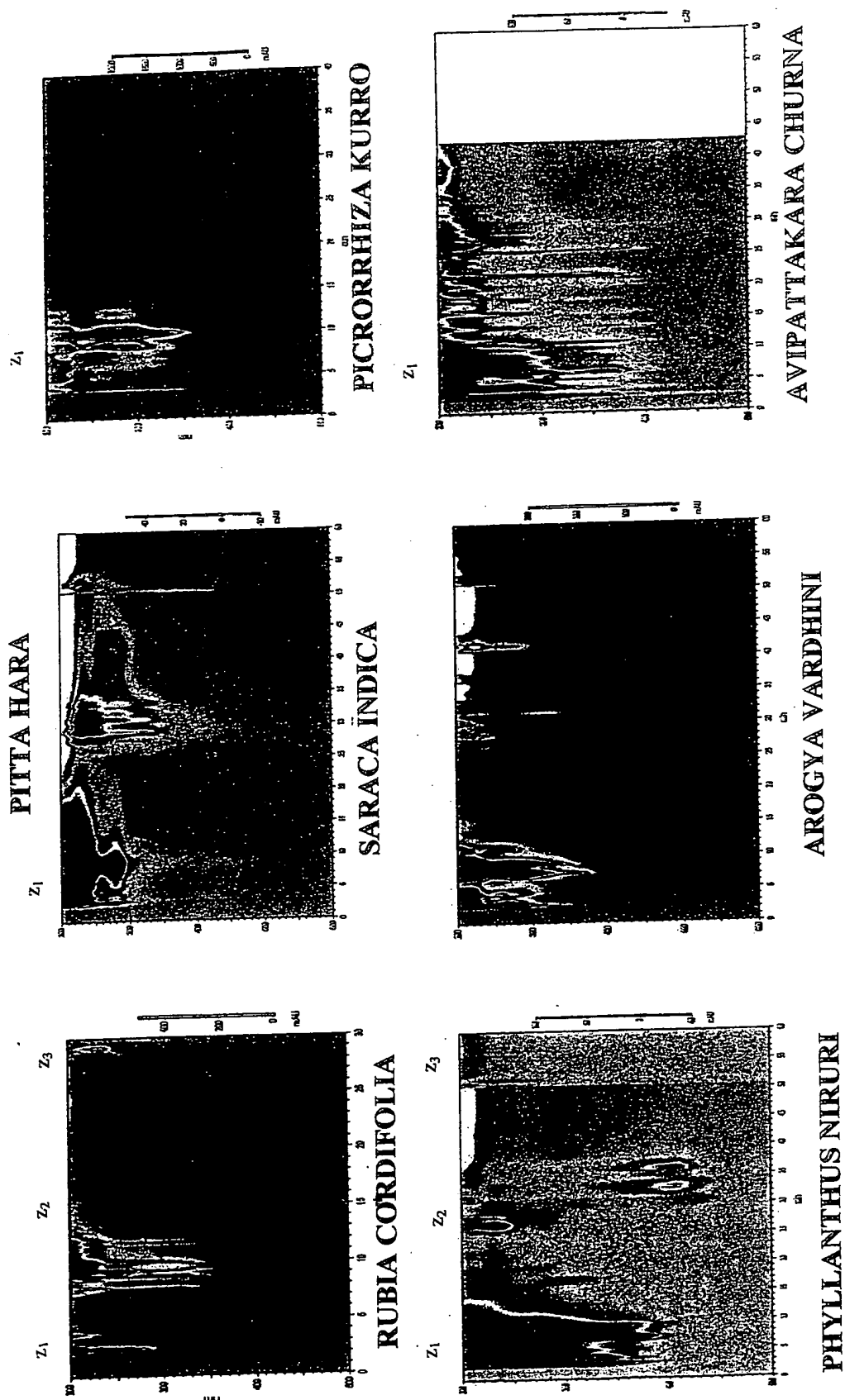
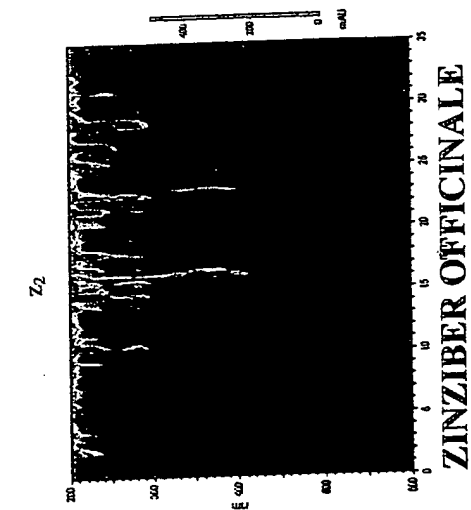
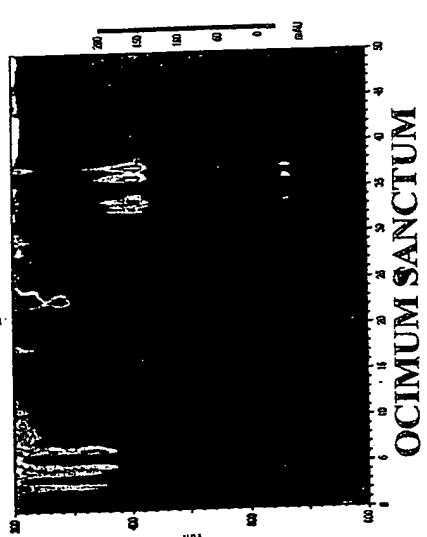


Figure 14

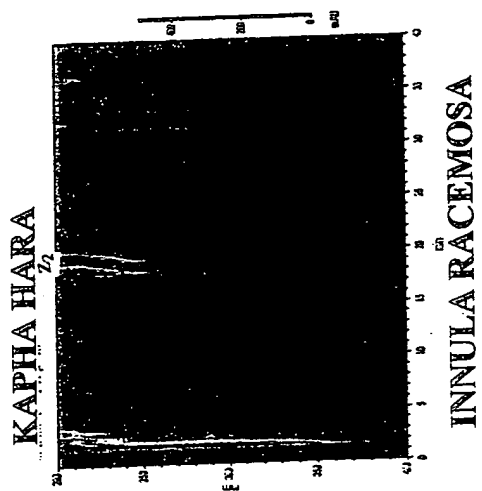
~~THE PRESENCE OF CONSTITUENTS IN ZONE I INDICATES THE SAID EFFICACY OF THE MEDICINES~~



(DRY)



**OCIMUM SANTUM**



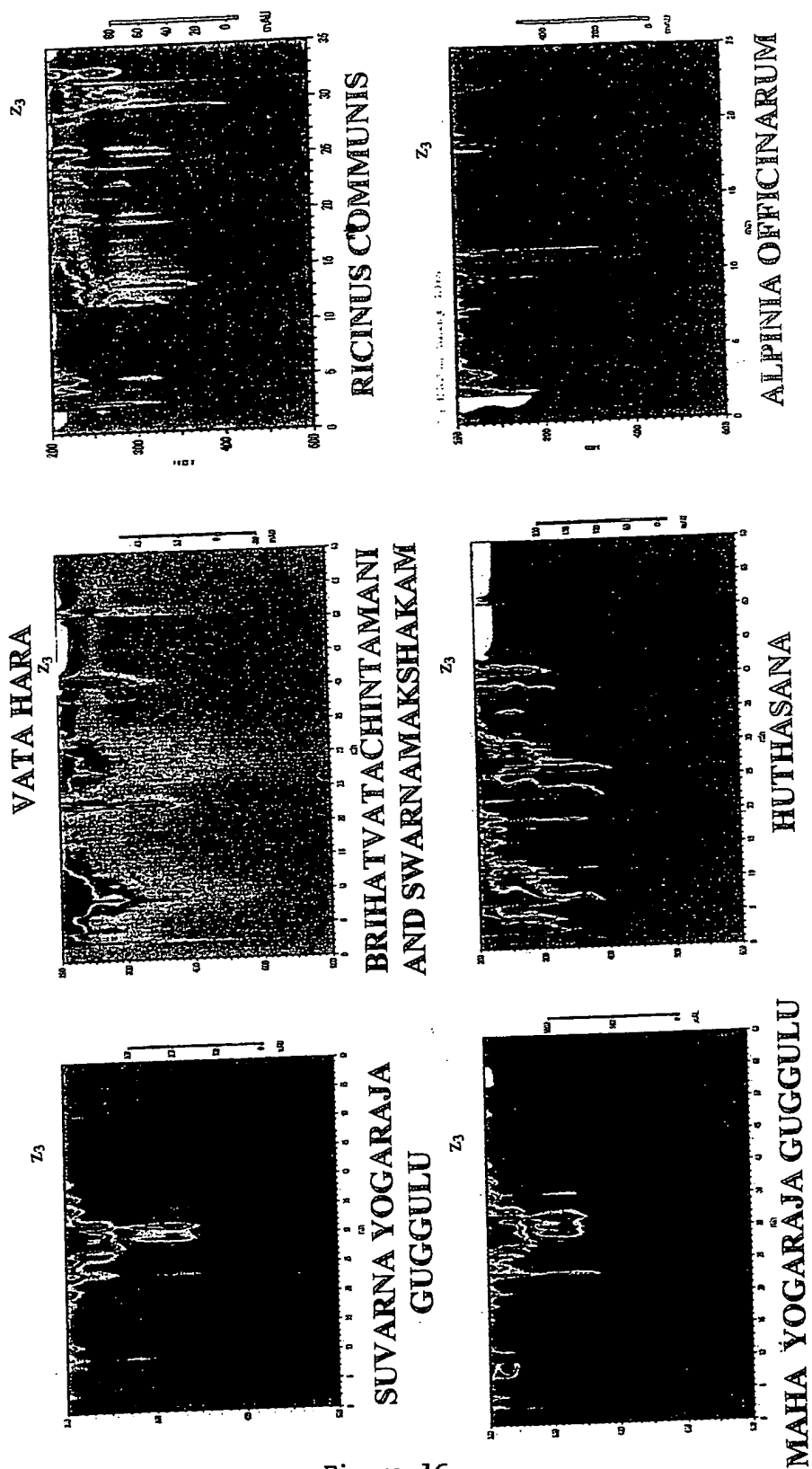
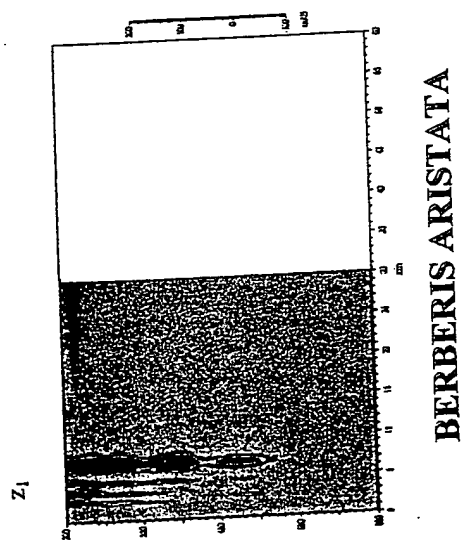
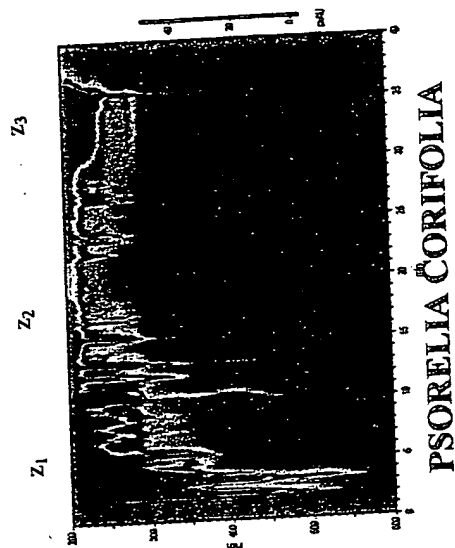
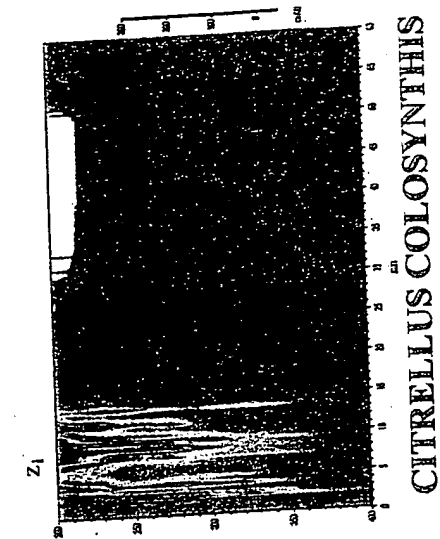
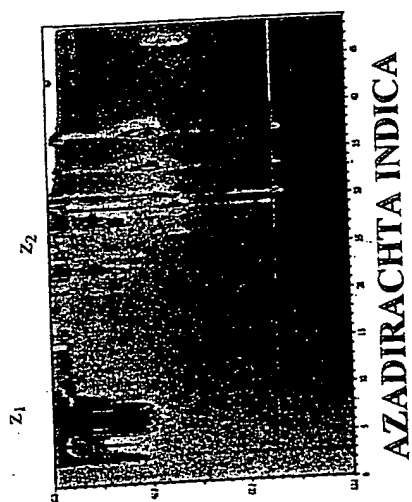
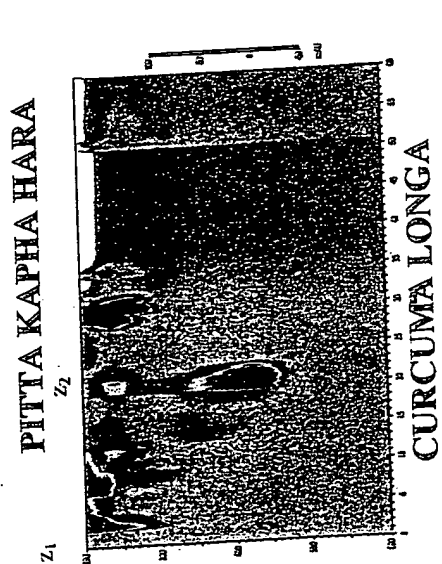
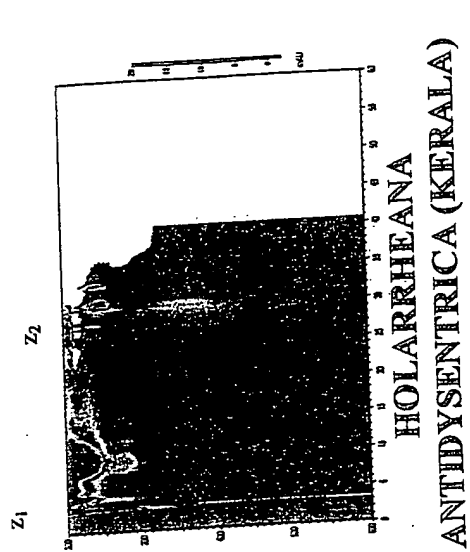


Figure 16

~~THE PRESENCE OF CONSTITUENTS ZONE 3 INDICATES THE SAID EFFICACY OF THE MEDICINES~~

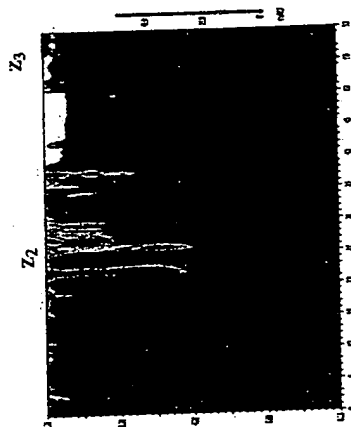




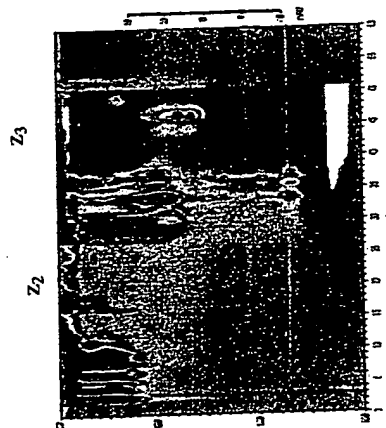
~~THE PRESENCE OF CONSTITUENTS IN ZONE-1 AND ZONE-2 INDICATES THE SAID EFFICACY OF THE MEDICINES~~

Figure 17

# KAPHA VATA HARA

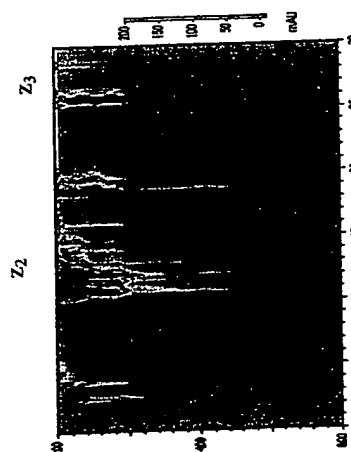


# TRIKATU SP

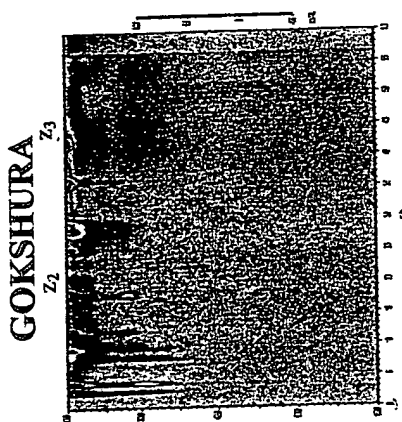


# PIPER BEETLE LEAVES FROM CULCUTTA

# PIPER BEETLE LEAVES FROM COASTAL ANDHRA PRADESH

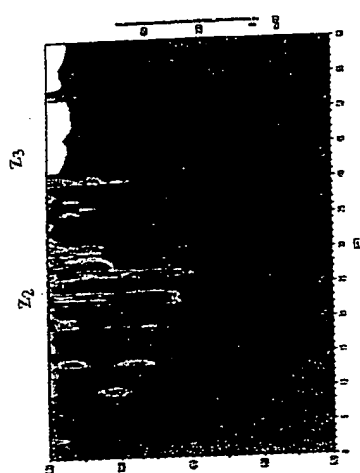


# TRIBULUS TERRESTRIS GOKSHURA

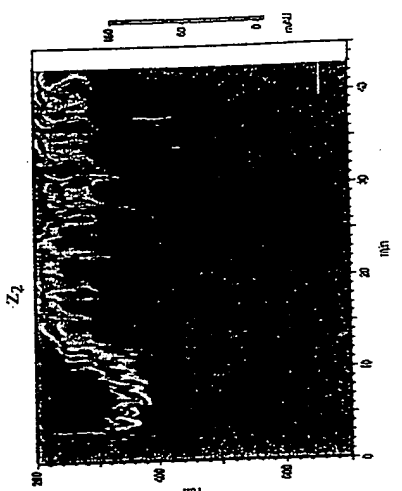


# PIPER BEETLE

# LEAVES FROM COASTAL ANDHRA PRADESH



# TRIKATU GH

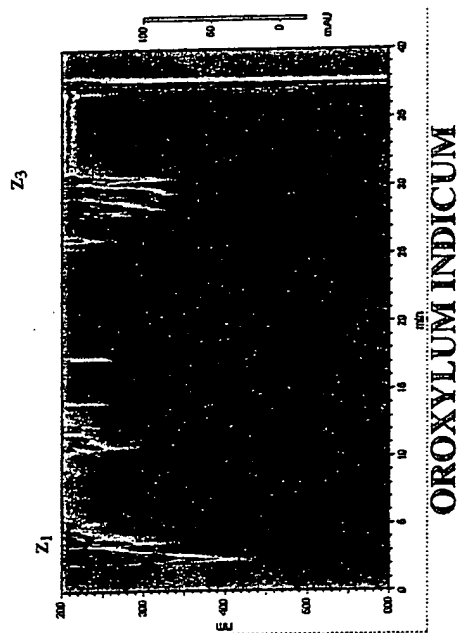
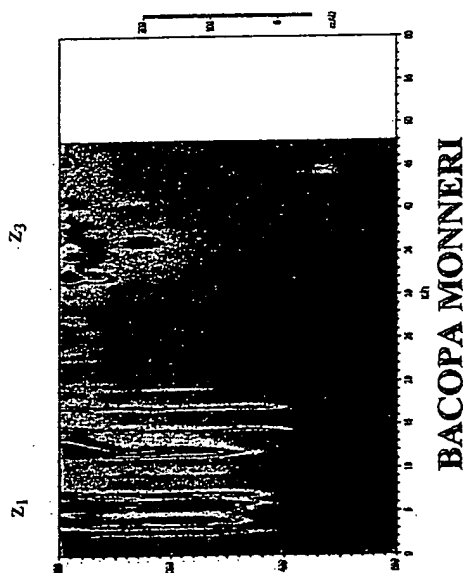
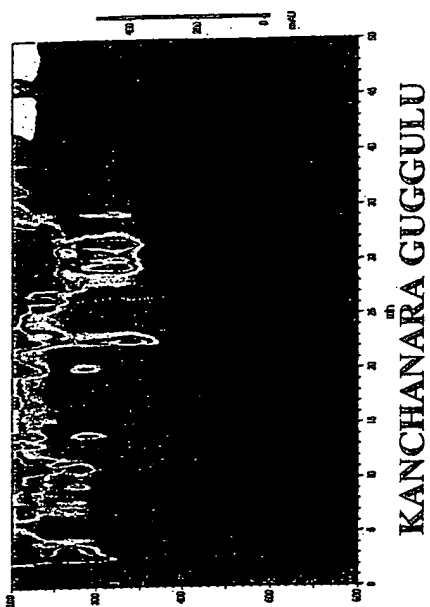
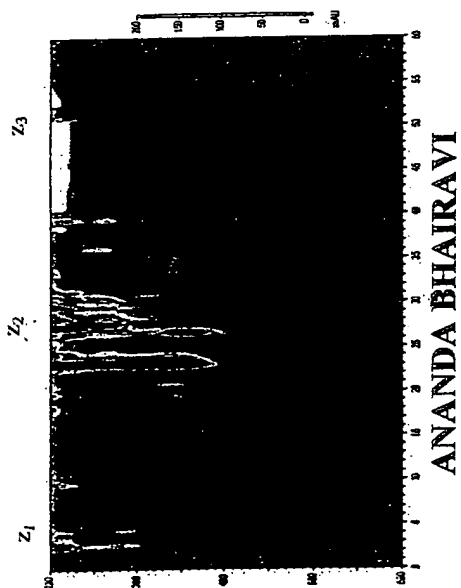


# MORINGA OLIFERA

~~THE PRESENCE OF CONSTITUENTS IN ZONE 2 AND ZONE 3 INDICATES THE SAID EFFICACY OF THE MEDICINES~~

Figure 18

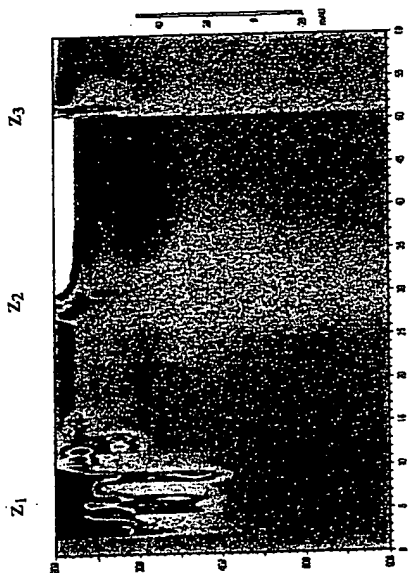
# PITTA VATA HARA



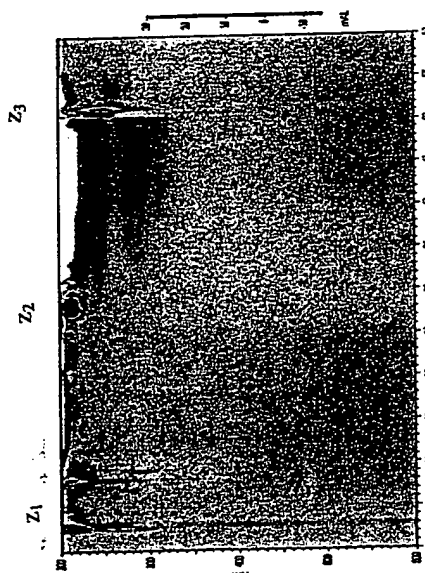
THE PRESENCE OF CONSTITUENTS IN ZONE-1 AND ZONE-3 INDICATES THE SAID EFFICACY OF THE MEDICINES

Figure 19

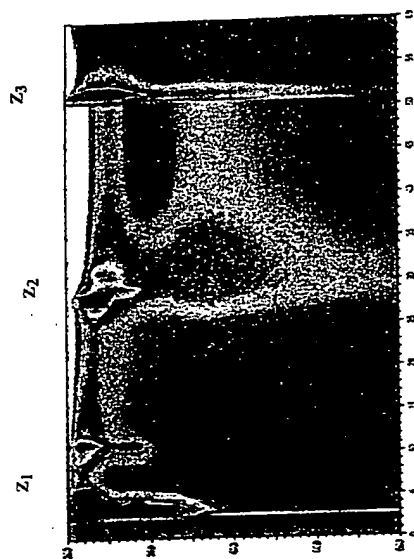
# TRI DOSHA HARA



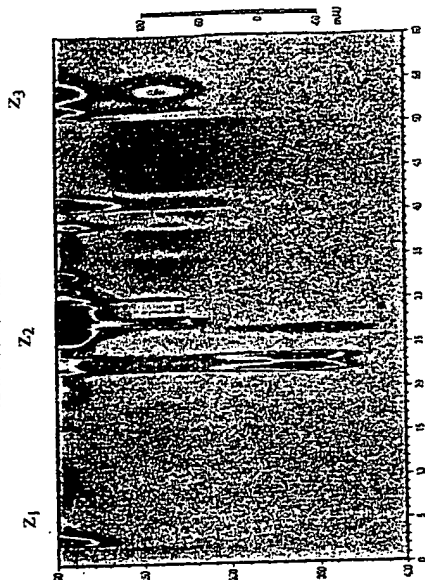
# ALLIUM CEPA (BIG)



# EMBLICA OFFICINALIS



# RED SEEDS

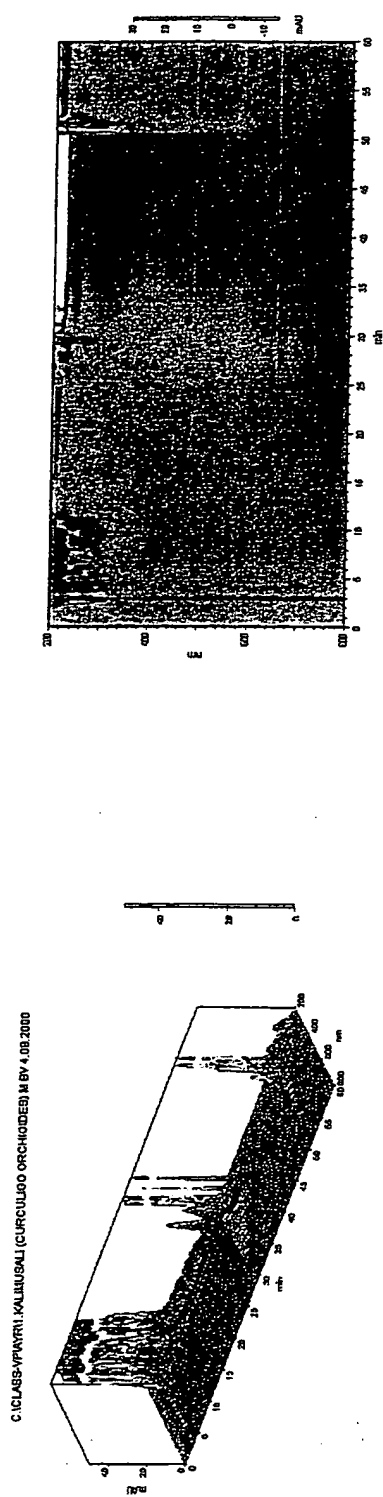


# MAHALAKSHMI VILAS RAS

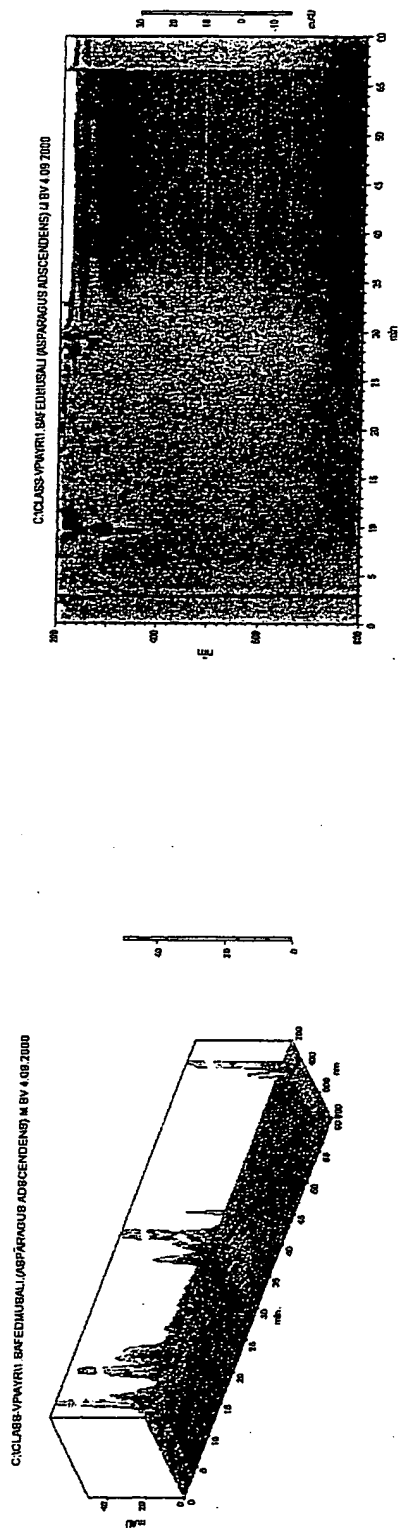
THE PRESENCE OF CONSTITUENTS IN ALL THREE ZONES INDICATES THE SAID EFFICACY OF THE MEDICINE

Figure 20

**Figure: MUSALI--A TRIDOSHIA HARA-MEDICINE**



**FINGER PRINTS OF CURCULIGO ORCHOIDIS (KALIMUSALI)**



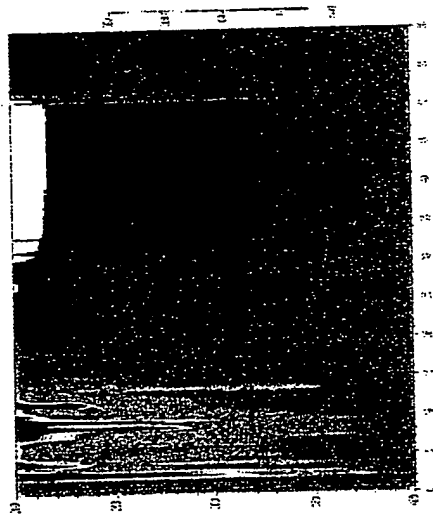
**FINGER PRINT OF ASPARAGUS ADESCENDENS (SAFED MUSALI)**

~~CITRULLUS COLOSANTHUS~~

~~(HOMOTO-MEDICINE)~~

Light in bitterness absent

Very bitter peak of difference



~~CITRULLUS COLOSANTHUS~~

POOR BY EFFICACY

~~CITRULLUS COLOSANTHUS~~

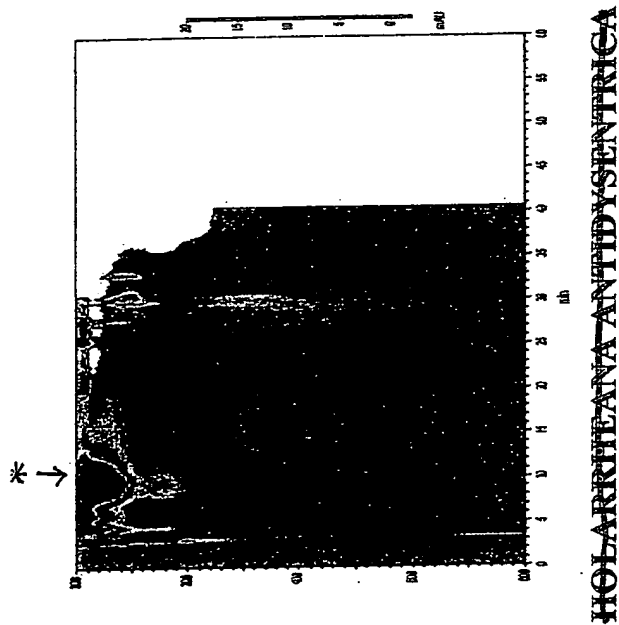
GOOD BY EFFICACY

~~THE LACK OF SOME CONSTITUENTS IN THE FINGER PRINT SHOWS THE USE OF THIS METHOD FOR THE STANDARDIZATION OF EXTRACTION PROCESS OF HOMOTO-MOTHER TINCTURES FROM PLANTS~~

~~This supports the claim of taste identification used for therapeutic standardization.~~

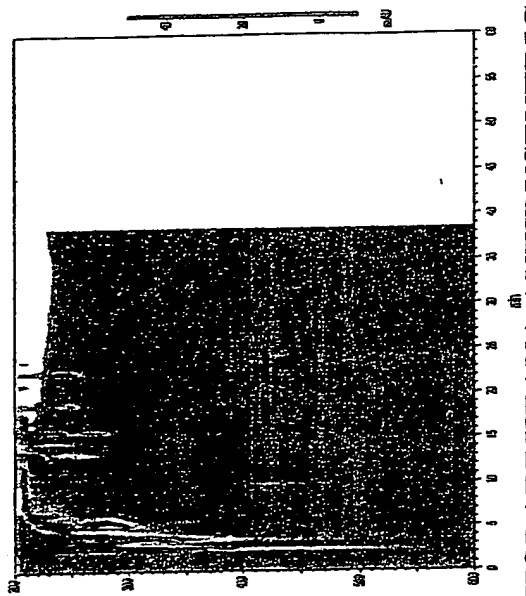
Figure 22

# ~~INFLUENCE OF ECOLOGICAL FACTORS~~



~~HOLARRHENA ANTIDYSENTRICA~~

~~(KERALA)~~



~~HOLARRHENA ANTIDYSENTRICA~~

~~(ANDHRA PRADESH)~~

Figure 23

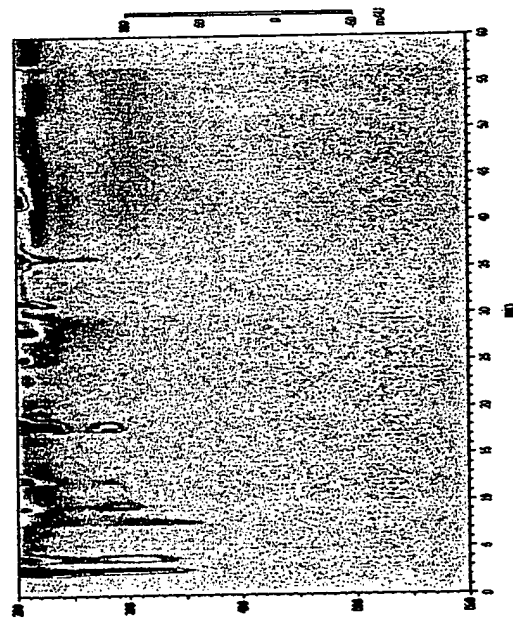
~~THE FINGER-PRINTS SHOWS THE INFLUENCE OF ECOLOGICAL FACTORS ON THE~~  
~~CHEMICAL CONSTITUENTS OF THE PLANT MATERIAL OF~~

~~DIFFERENT TROPICAL ZONES OF THE COUNTRY.~~

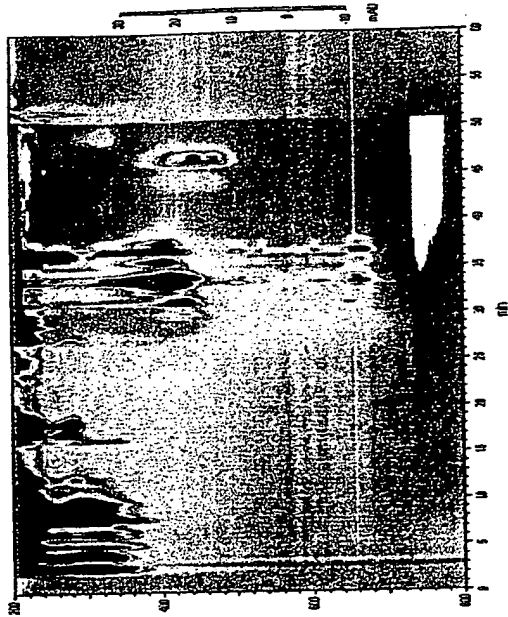
\* ~~This constituent is basic in nature because the basic or alkaline amines elutes stretched or elongated. Acid compounds elute fast like a sharp peak.~~

Figure 24

~~PAPER-BEETLE-EXAMPLE~~



BEETLE LEAVES FROM COASTAL  
ANDHRA PRADESH



BEETLE LEAVES FROM  
CALCUTTA

Aurones and Chareones (flavonoids) are antioxidants. A combinatorial library of \_\_\_\_\_ can be seen.

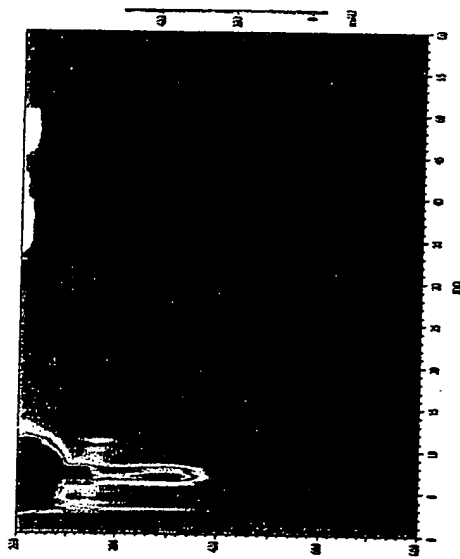
~~THE FLAVONOIDS PRESENT IN THE TIME RANGE OF 30-40 MIN SHOWS THE INFLUENCE OF  
GENOTYPIC, PHENOTYPIC VARIATIONS AND ECOLOGICAL FACTORS ON THE CHEMICAL  
CONSTITUENTS OF THE PLANT MATERIAL OF DIFFERENT~~

~~TROPICAL ZONES OF THE COUNTRY~~



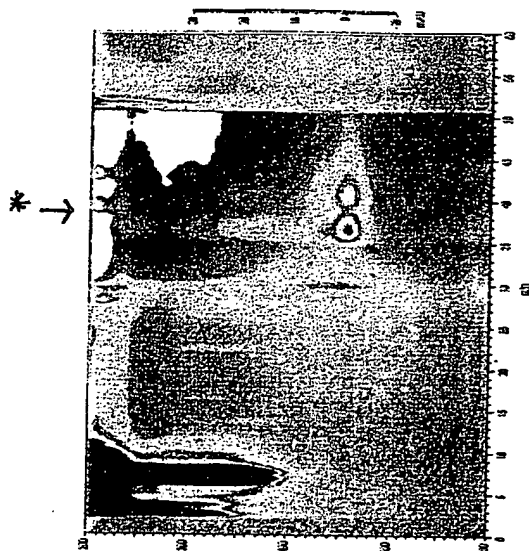
Figure 26

# ~~HERBAL HEAD BATH POWDERS~~



~~HERBAL HEAD BATH POWDER~~

PURE



~~HERBAL HEAD BATH POWDER~~

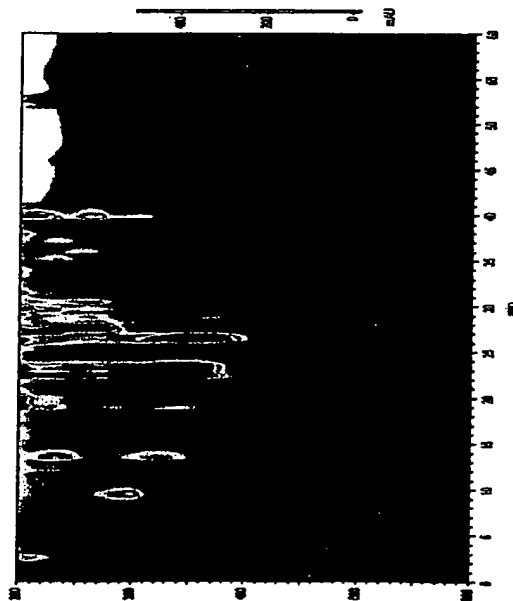
ADULTERATED

THE ABOVE FINGER PRINTS SHOW THE ADULTERATION OF DETERGENTS IN THE SAID  
HERBAL COSMETIC PRODUCT. THUS FINGER PRINTING HELPS TO MONITOR THE  
ADULTERATIONS IN VARIOUS COMMERCIAL HERBAL PRODUCTS

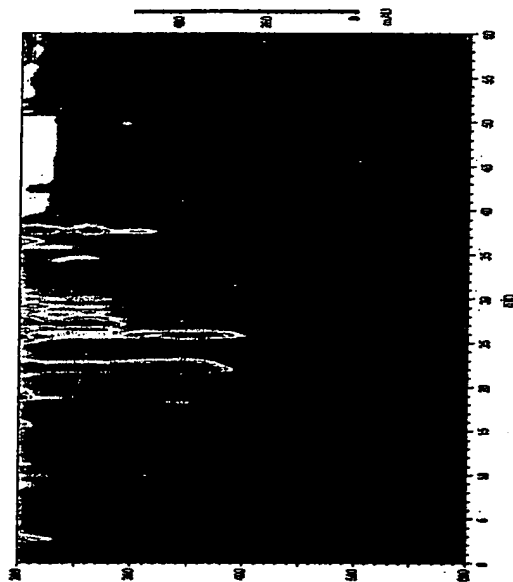
\* → ~~Constituents at 35-40 minutes are highly basic and soapy in nature. The pure detergent sample are eluting at the same time.~~

Figure 27

~~HERBAL FORMULATIONS OF  
DIFFERENT BRANDS~~



TRIKATU - BRAND 1



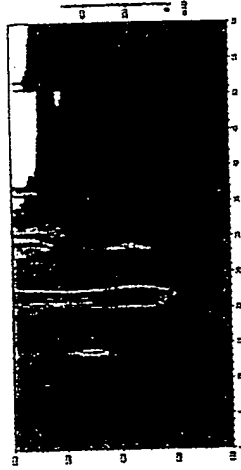
TRIKATU - BRAND 2

THE ABOVE EXAMPLE OF TRIKATU SHOWS DIFFERENCE IN THE ASSAY AND VARIATIONS  
IN THE CHEMICAL CONSTITUENTS. THE REASON MAY BE DUE TO THE VARIATIONS IN  
THE SINGLE MEDICINES USED TO PREPARE THE FORMULATIONS.

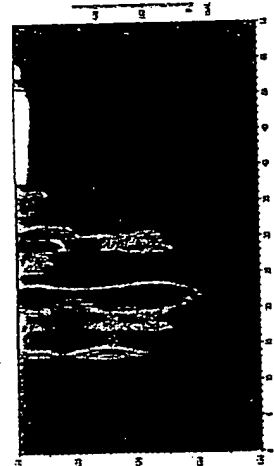
~~SUPPLEMENTARY EXAMPLE~~



CURCUMA LONGA BRAND - 1



CURCUMA LONGA BRAND - 2



CURCUMA LONGA BRAND - 3



CURCUMA LONGA  
(NATURAL RHIZOME)

Figure 28

~~THE FINGER PRINTS OF THE SAME HERBAL PRODUCT IN DIFFERENT FORMS HELPS IN THE QUALITY CONTROL OF THE NATURAL SUBSTANCES. THE COMMON PEAKS AT 20 MIN IN NATURAL AND COMMERCIAL PRODUCTS INDICATES THE PRESENCE OF THE YELLOW COLORED MOLECULES IN ALL.~~

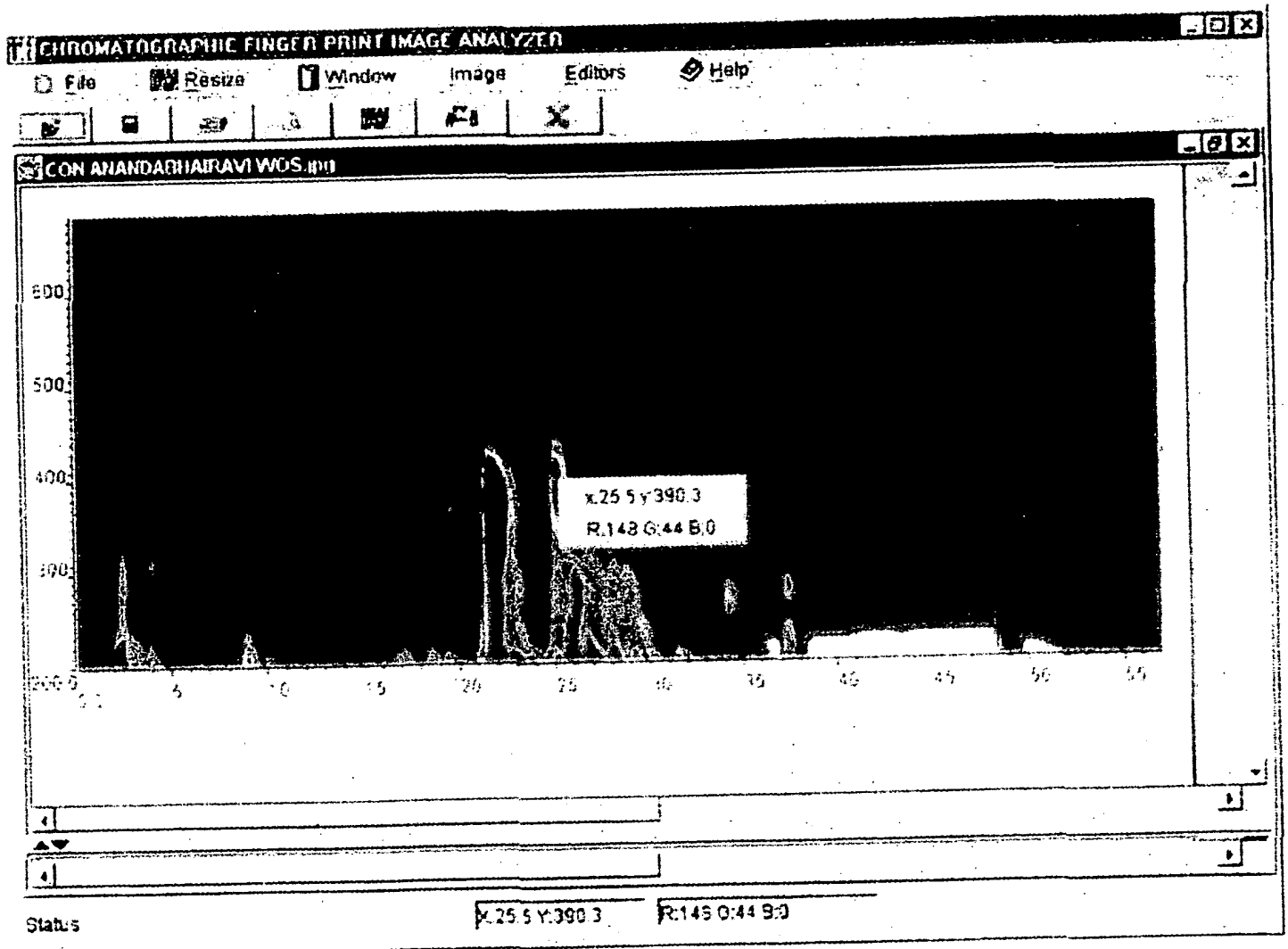






Figure 93

# ~~IMAGES WITH BAR CODE VALUES GIVEN BY THE SOFTWARE TO FEED FOR A BAR CODING SOFTWARE~~

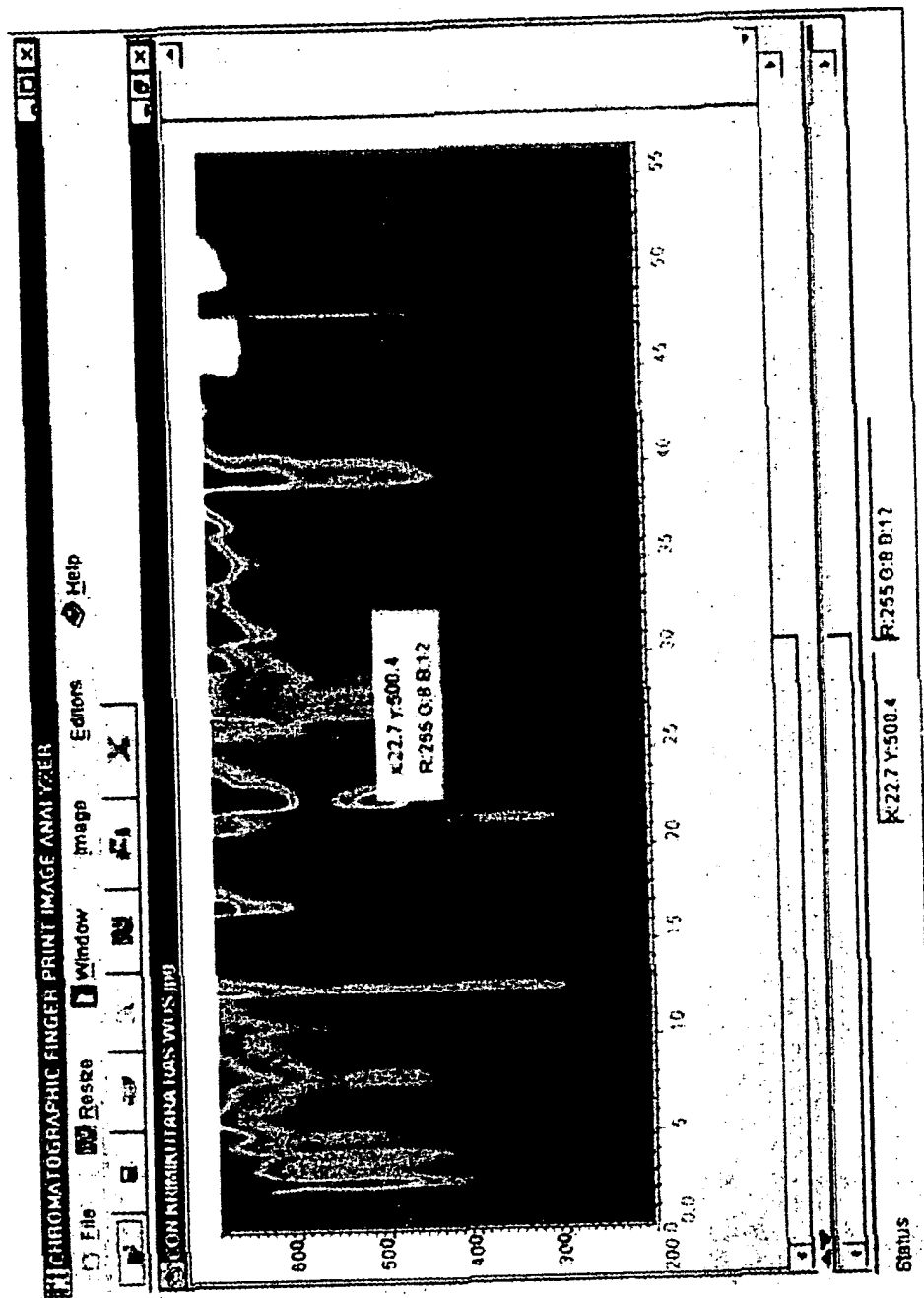


~~Anandabhairavi Ras~~

~~Y right clicking the image software is able to show the coordinates on the box near the peak. The same is shown in down tool bar. These will be exported to barcoding software which generates a barcode for the said values.~~

Figure 94

~~IMAGES WITH BAR CODE VALUES GIVEN BY THE  
SOFTWARE TO FEED FOR A BAR CODING SOFTWARE~~

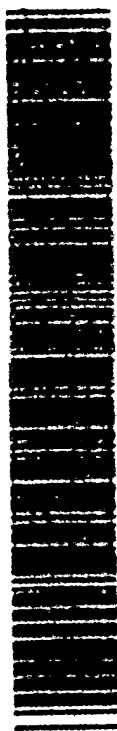


~~Krimikutara-Ras~~

~~Same mechanism as explained in Figure 93~~



Figure 95



X25.5Y390.3R148G44B0

~~ANANDABHAIKA VI RAS~~

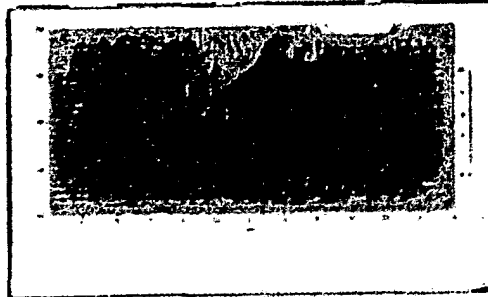
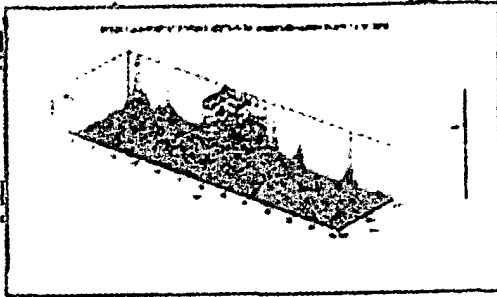
~~Barcode generated for specified coordinates~~

Figure 97

**Name of the product: Anandabhairavi Ras**

**Owner: Industry**

**Finger prints:**



**Mfg. Date:**

**Date of expiry:**

**Individual constituents:**

**Batch number:**

**Lot number:**

**M.R.P:**

**Dosage:**

**Precautions:**

**For Children:**

**For pregnant woman:**

**Barcode:**



X25.5Y390.3R148G4480

ANANDABHAIRAVI

**Display Window For Anandabhairavi Ras**

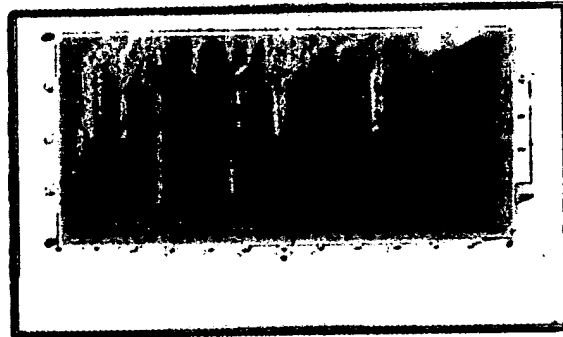
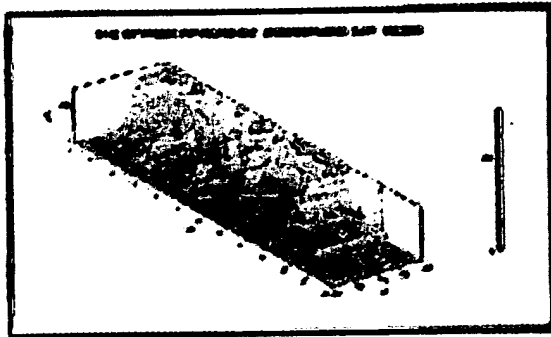
~~Display windows for all the medicines will be done. This becomes a database for ERP CRM application.~~

**Figure 98**

**Name of the product: Krimikutara Ras**

**Owner: Industry**

**Finger prints:**



**Mfg. Date:**

**Date of expiry:**

**Individual constituents:**

**Batch number:**

**Lot number:**

**M.R.P.:**

**Dosage:**

**Precautions:**

**For Children:**

**For pregnant woman:**

**Barcode:**

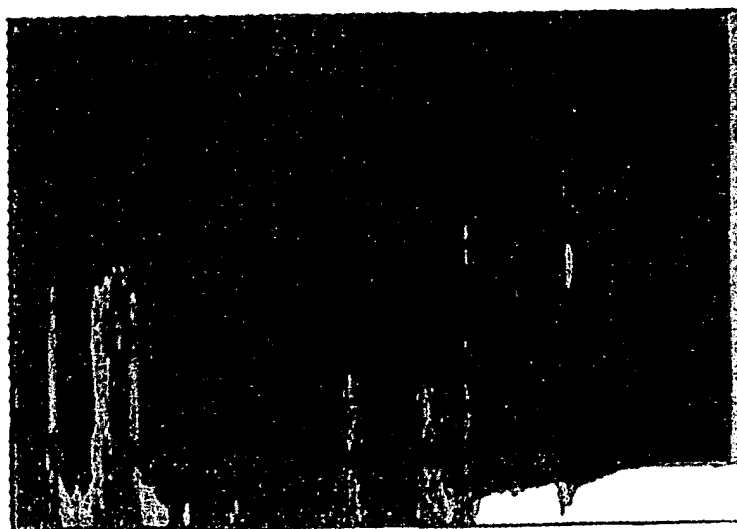
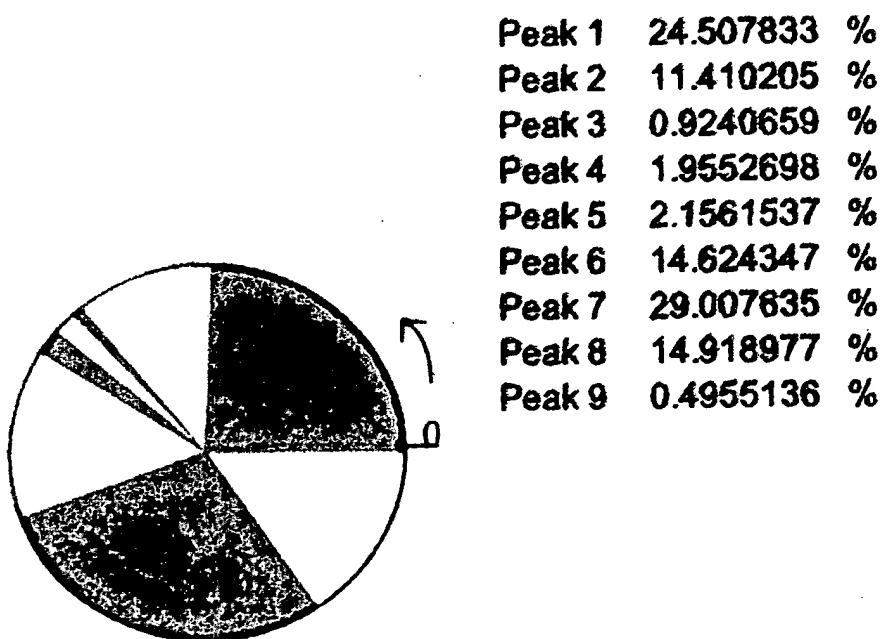


722.7Y500.4025509B12

KRIMIKUTARA RAS

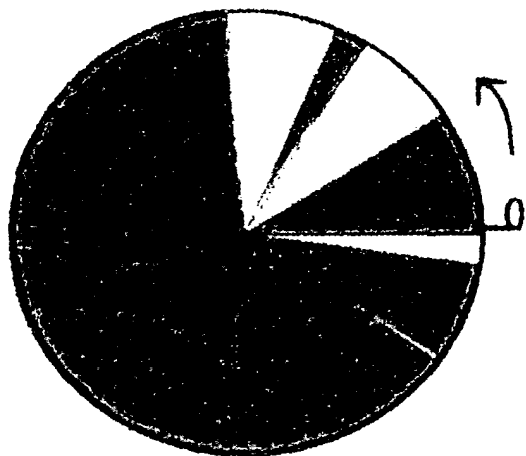
**~~Display Window For Krimikutara Ras~~**

Figure 103



~~PIE-DIAGRAM OF AZARDIRACTA-INDICA~~  
~~(Tender leaves in February)~~

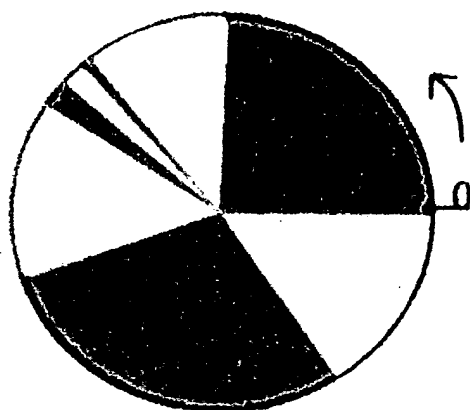
Figure 104



Peak 1	9.27475 %
Peak 2	7.0686646 %
Peak 3	0.06434415 %
Peak 4	0.3860649 %
Peak 5	2.3163893 %
Peak 6	7.620186 %
Peak 7	64.197075 %
Peak 8	0.32172075 %
Peak 9	2.9598308 %
Peak 10	0.11030425 %
Peak 11	3.7227685 %
Peak 12	0.08272819 %
Peak 13	0.54232925 %
Peak 14	0.97435427 %
Peak 15	0.07353617 %
Peak 16	0.28495267 %



Figure 105



Peak 1	24.507833	%
Peak 2	11.410205	%
Peak 3	0.9240659	%
Peak 4	1.9552698	%
Peak 5	2.1561537	%
Peak 6	14.624347	%
Peak 7	29.007635	%
Peak 8	14.918977	%
Peak 9	0.4955136	%

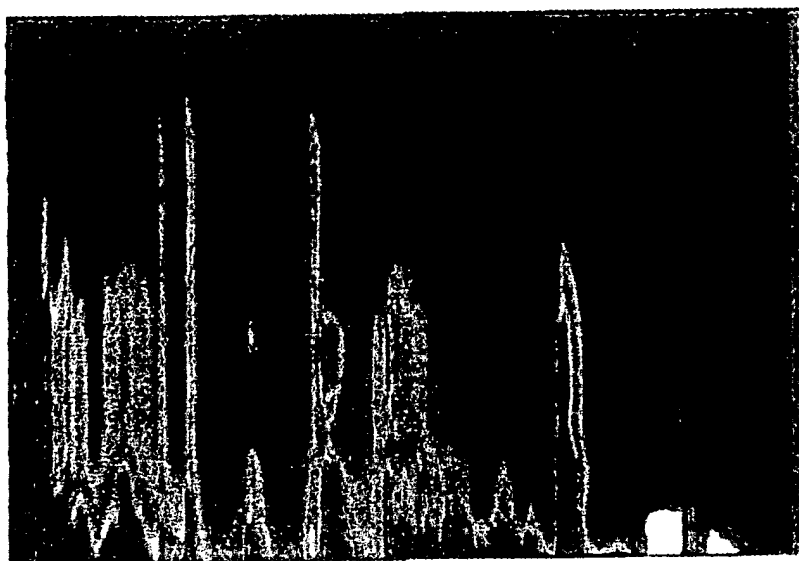
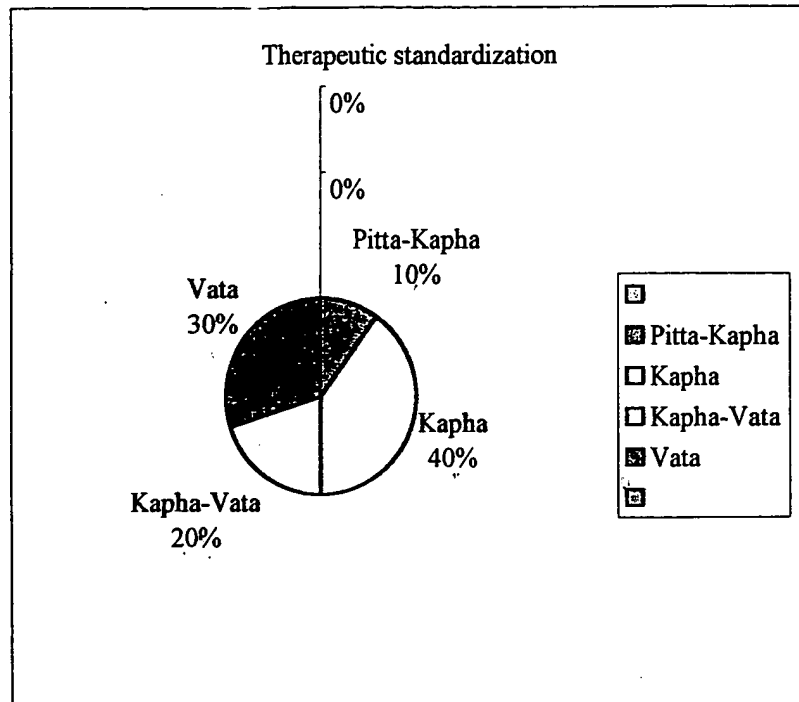


Figure 106

~~Pixel values or percentage values from graphs.~~

Pitta-Kapha: 10  
Kapha 40  
Kapha-Vat 20  
Vata 30

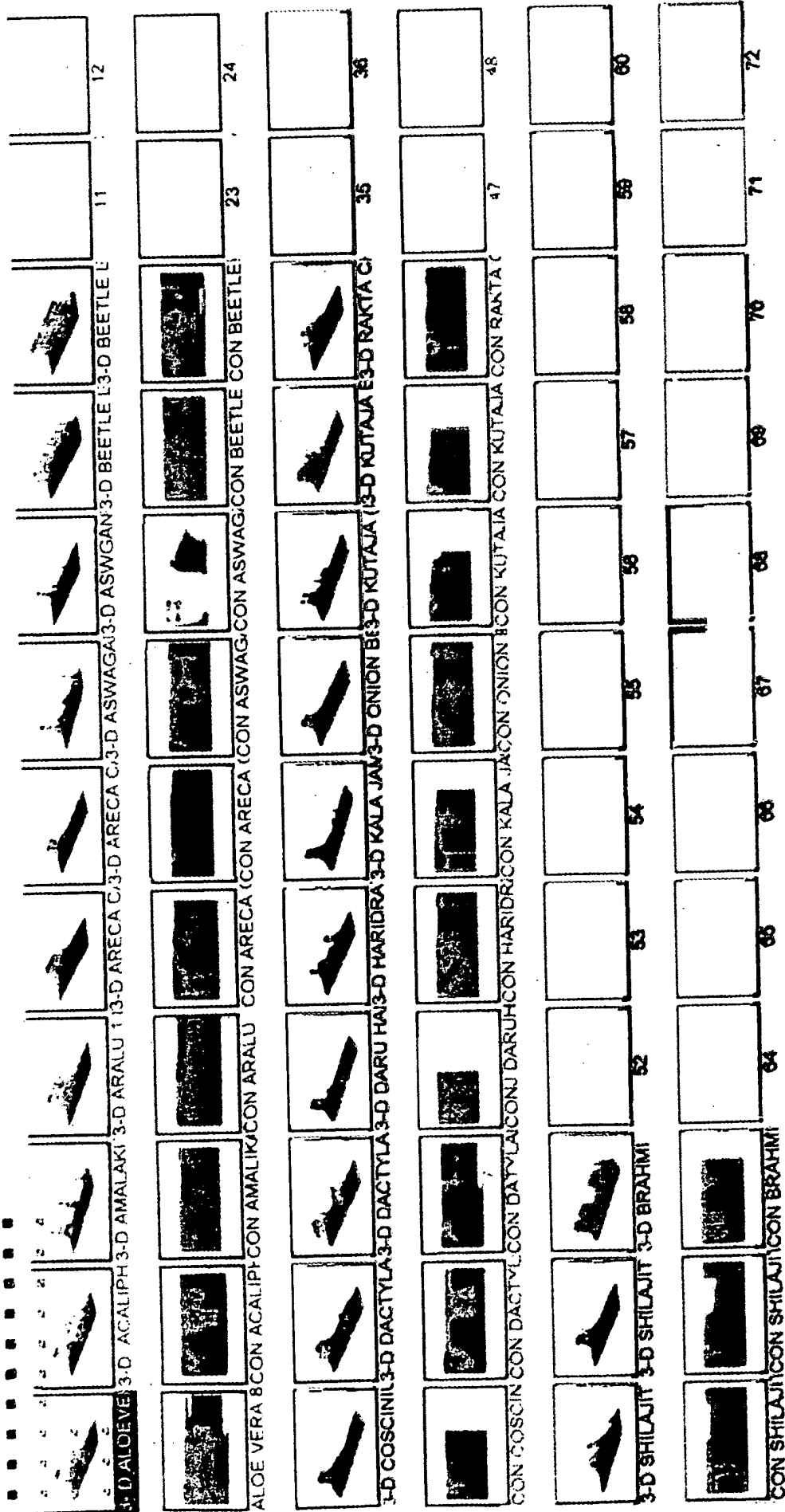


~~This gives the efficacy of the medicine due to the constituents present in various zones of the fingerprint.~~

~~The values of pixels were taken generally and are not for a chromatogram. This figure only shows only how it appears.~~

C:\WINDOWS\DESKTOP\Director files\SINGLE PLANTS

Figure 109



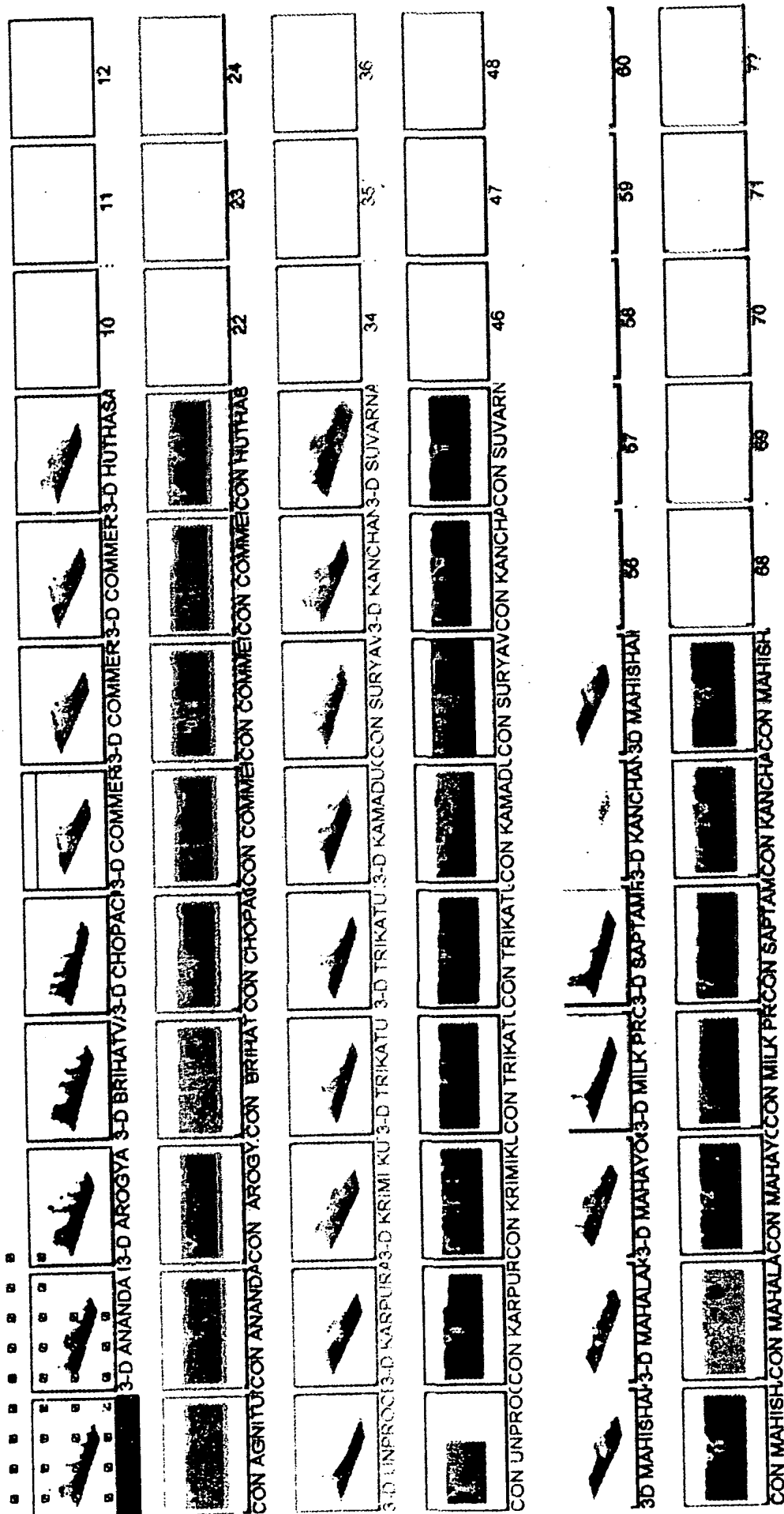
These libraries of 3d and contour images of medicines will be prepared as a database for various ERP and CRM applications. The 3d and Contour chromatograms are given in top and bottom lines.

Databases based on color, taste, odour, therapeutic value, phytochemical parameters can be prepared to understand the therapeutic efficacy of a medicine. Parameters can be prepared to understand the therapeutic efficacy of a medicine. Parameters can be prepared to understand the therapeutic efficacy of a medicine.



C:\WINDOWS\DESKTOP\Director files\HERBAL FORMULATIONS

**Figure 110**



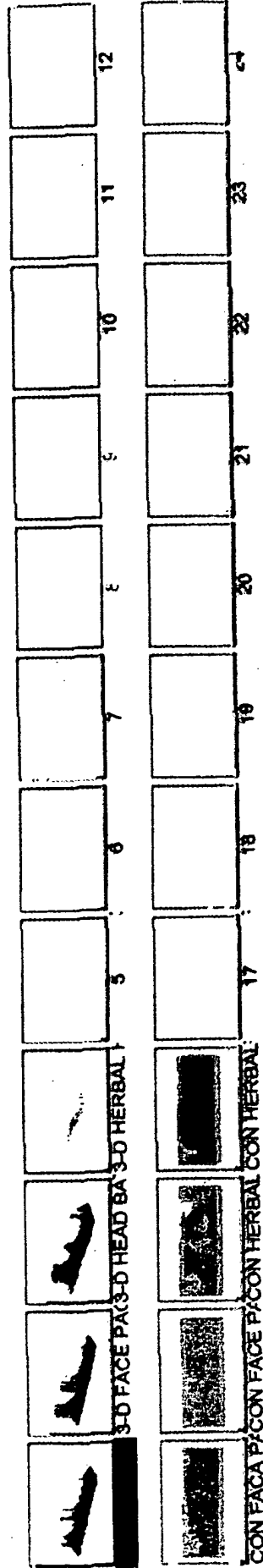
~~These will help the industry to monitor their product profile for the market and also for proper standardization to prepare a formulation.~~

Fri, Sep 22, 2000

C:\WINDOWS\DESKTOP\Director files\COMMERCIAL SAMPLES

• • • •  
• • • •

Figure 111

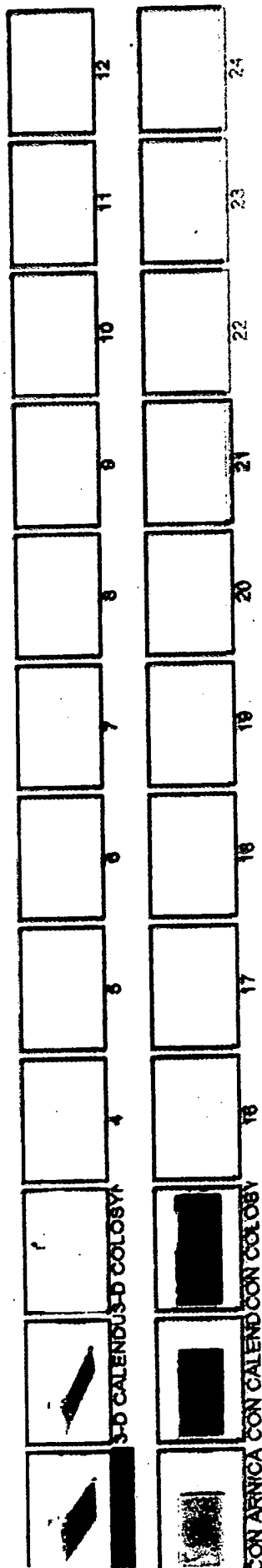


Example for adulterated cosmetic samples.

C:\WINDOWS\DESKTOP\Director files\HOMOEIO MEDICINES

• • •  
• • •

Figure 112

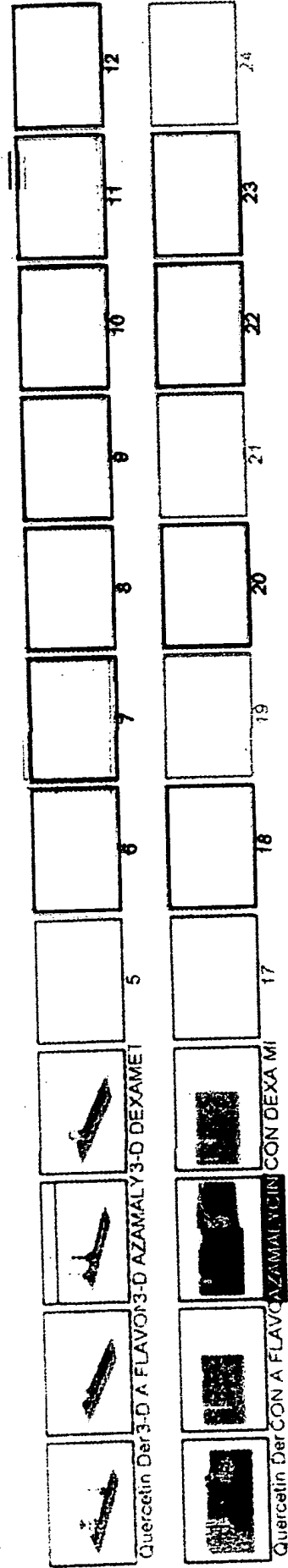


~~The fingerprint of Mother thence only were done. They can be done to the level of femto gram level as the PDA detectives are very sensitive. Hence situation can also be fingerprinted.~~

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Figure 113

2 2 2 2  
2 2 2 2

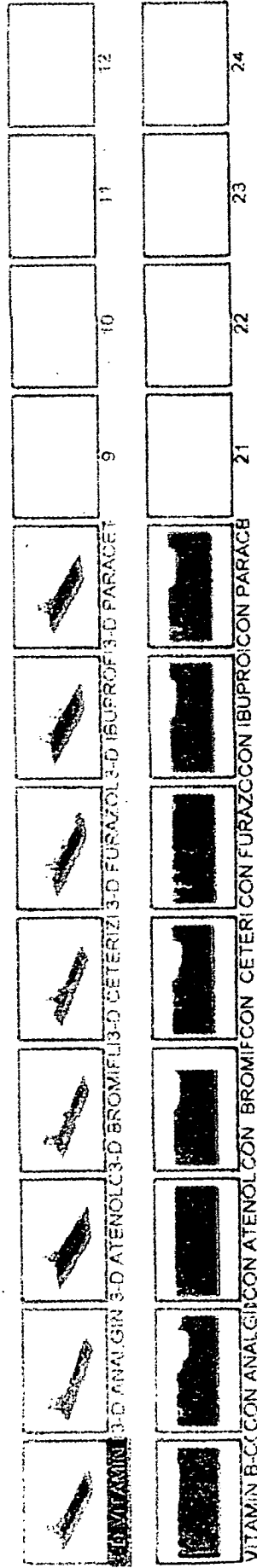


~~This helps to know the purity after isolation and to know the UV spectrum of an unknown molecule.~~

C:\WINDOWS\DESKTOP\Director files\ALLOPATHIC MEDICINES

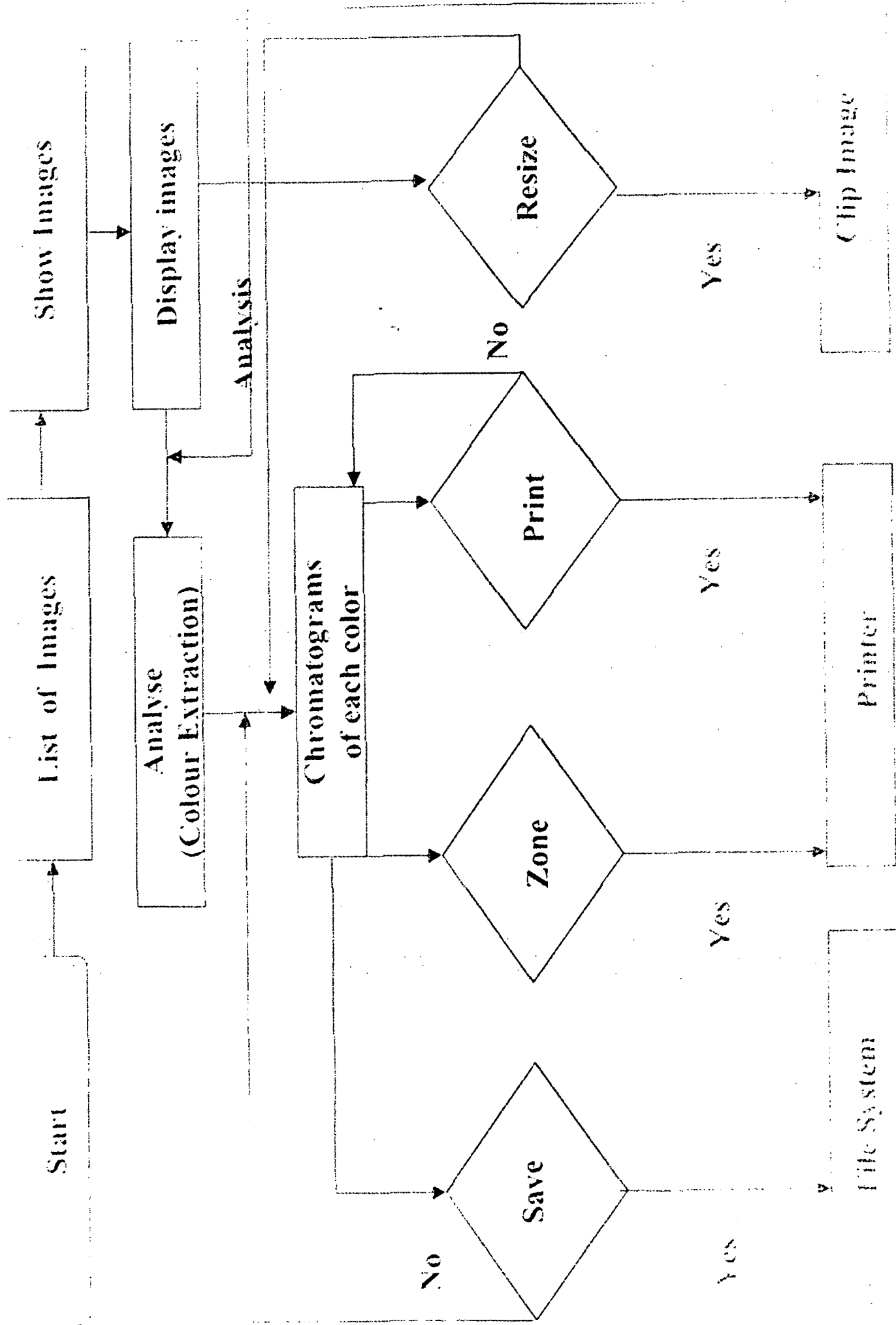
.....  
.....

Figure 114



~~This method can be used for all allopathic medicines for chemical and therapeutic standardization.~~

Figure 115



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